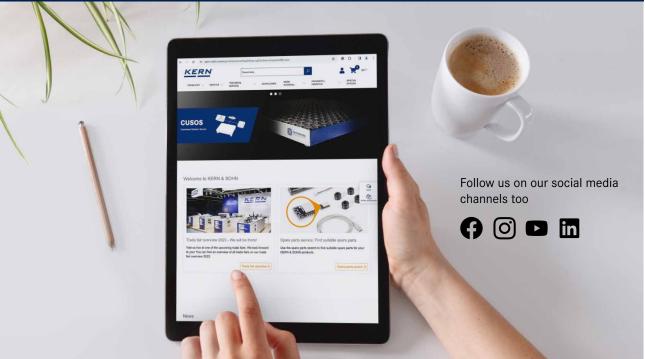
info@kern-sohn.com

www.kern-sohn.com

→ Full KERN & SAUTER Product Range

from KERN online: www.kern-sohn.com

- → Convenient 24/7 Ordering
- → Selection of more than 5,000 Items across Weighing and Measuring Technology, Optical Instruments as well as Accessories and Services
- → Extensive Information and useful Download Options
- → Technical Product Data Sheets
- → Descriptive Image and Video Material
- → Useful KERN Services
- → Technical Glossary
- → KERN Dealer Portal
- → Practical Filter and Search Functions



GLOBAL

It's so easy to order from KERN: → Tel. + 49 7433 9933-0

info@kern-sohn.com

Online Shop www.kern-sohn.com We look forward to meeting you in our online shop - simply use the QR Code:



180 Years KERN & SOHN Interested? See ...

on page 6 → How it all began on page 82 → The KERN family today



on page 178 → Sneak peek into the future

Your Advantages - our Philosophy. All KERN Advantages at a Glance

ONLINE SHOP WWW.KERN-SOHN.COM

Convenient ordering or just to be inspired. You will find a huge selection of products and services in our KERN online shop, 24/7.

ADVICE FROM THE EXPERTS

Our KERN experts will offer you individual advice in a range of languages and will be pleased to assist you:

Mon - Fri from 8.00 am to 5.00 pm

100 % PRODUCT AVAILABILITY AND DISPATCH SERVICE

With KERN you can be sure that you will have immediate access to the products you need - provided that they are in stock. Our 24-hour dispatch service will send your products immediately. Ordered today, on their way tomorrow!

WARRANTY

We offer you as the customer up to 3 years warranty on all products in our entire range, as an option the warranty can be extended for a small fee. Because our products deliver on their promises!

CUSTOMER SERVICE

Our customer service is personally available by telephone, e-mail or video call. We speak more than 7 languages and we will be happy to help with your requests.

TRUST THROUGH **EXPERIENCE**

Experience counts: We are professionals when it comes to precision: A heavyweight in terms of weighing and measuring technology and this has been the case for 180 years - for the benefit of our customers. Put us to the test!

ACCREDITATIONS/ CERTIFICATION

- · DAkkS accreditation DIN EN ISO/IEC 17025
- · Certified QM system DIN EN ISO 9001 · Conformity assessment in accordance with NAWID 2014/31/EU
- · Medical certifications DIN EN ISO 13485 and 93/42/EEC or VO (EU) 2017/745

DAKKS CALIBRATIONS

In the modern, accredited KERN calibration laboratory, we perform DAkkS calibrations for balances, test weights as well as for numerous other measuring

In addition we can offer calibrations on your premises. Of course, all services are in accordance with international

VERIFICATION SERVICE

Our professional verification service offers conformity assessments and verification of balances and weights - for a feeling of security in compliance with legal requirements.

INDIVIDUAL CUSTOMER SOLUTIONS

We are the right partner for special customer requirements. KERN offers numerous modular system solutions for your very individual weighing requirements. Please contact us!

SERVICE PORTAL

You can find aftersales support in our online service portal: Technical Support, help with questions or problems, etc. www.kern-sohn.com/shop/en/ Serviceportal/

SPARE PARTS AND REPAIR SERVICE

In spite of reliable KERN quality: If you should ever need to make a complaint about our products, we will help you quickly, flexibly and in an unbureaucratic

NO STORAGE COSTS

You have no storage costs - we maintain the storage. Direct dispatch of ordered goods to your customer is available, invoice will be issued to you (third party

STILL GOT QUESTIONS?

You can find all KERN Service Hotlines on page 5.











KERN

SURING

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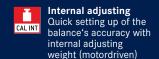
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KERN Pictograms









weighing data, tare weights, PLU etc.



KERN Universal Port (KUP) allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WIFI, Analogue, Etherne etc. for the exchange of data and control com mands, without installation

















the measurements



For direct connection of a second balance





are thus easily integrated

with computers, industrial

GLP/ISO log intern

he balance displays

weight, date and time,

independent of a printer

GLP/ISO log Printer

Piece counting

electable

Recipe level A

printed out

Recipe level B

ith weight, date and time.

Only with KERN printers.

Reference quantities

from piece to weight

Display can be switched

he weights of the recipe

ingredients can be added

weight of the recipe can be

together and the total

ternal memory fo

guidance through display

The weights of similar items

can be added together and

the total can be printed out

Percentage determination

Determining the deviation

in % from the target value

Totalising level A

systems

interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP

IP



Rechargeable battery pack Rechargeable set



supply th universal input and optional input socket A) EU, CH, GB B) EU, CH, GB, US C) EU, CH, GB, US, AUS



Plug-in power supply 230V /50Hz in standard version for FU. CH. version available





Weighing principle Strain gauges



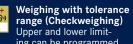
A resonating body is electromagnetically excited. causing it to oscillate



Weighing principle Electromagnetic force Coil inside a permanent magnet. For the most



Weighing units
Can be switched to e.g. onmetric units. See balance model. Please refer to KERN's website for more



Joper and lower limit ing can be programmed individually, e.g. for sorting and dosing. The process is supported by an audible or visual signal, see the relevant model

Hold function Animal weighing program) hen the weighing conditions are unstable, a stable weight is calculated

as an average value



Conformity Assessment

specified in the pictogram

formity assessment is

The time required for

DAkkS calibration possible (DKD)

DAkkS calibration

pictogram

Package shipment

in the pictogram

Pallet shipment

in the pictogram

he time required for

is shown in days in the

Factory calibration (ISO)

in days in the pictogram

The time required for

nternal shipping prepa

rations is shown in days

The time required for

nternal shipping prepa-

rations is shown in days

Factory calibration is shown

+3 DAYS

+4 DAYS











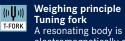
On request GB, USA or AUS



230V/50Hz standard EU. More standards e.g. GB. USA or AUS on request









accurate weighings



Weighing principle Single cell techr principle with the highest level of precision

KERN Models A-Z

\BP	50-51
ABP-A	
ABT-NM	48
ACS/ACJ	
ADB/ADJ	43
ALS-A/ALJ-A	
В	
3FB	_ 124-125
BFN	126
BIC	
BID	_ 122-123
C	
CB Q1 · CB Q2 · CB P1	160
CCA	
ccs	96-97
DDS	
CE Hx	
CFS	90
CH	169
CIB	
CJ P · CJ X	
CKE	
CM	
CO Y1 · CO Y2 · CO Y5	
CP P4 · CP Y4 · CP P1 · CP Y1 · CP P3	
CP P2 · CP P8 · CP P7 · CP P9	
CR Q1 · CR P1 · CR Y1	
CT Q1 · CT P1 · CT P2	
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CXB/CXB-NM	88
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DAB	
DBS	
DE	
DLB	
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ECB-N/ECE-N	
FS	
G-N/EW-N	37
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EMB	14
EMB-V	
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EOB	
:0C	
OE	
EOS	105
EWJ	

CB	61
CE-N	60
CF	
S/FEJ	41
N	74
SE	68
(B	62-63
)B-LM	
)B-S · FOB-NS	
B · FOB-NL	72
N · FXN-M	75
AB-N	64
CB	171
CD	
CN	
OB-N · HDB-XL	
⁼ A	
⁻ C	
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C 🚾	112-113
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)P	
A-V20	
В-ТМ	
-C-TM	150
D-V20	153
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-N-TM	
P-V20 IP65	
P-V20 IP67	153
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P-V40 IP68 🔤	155
e TM	140

NFB	133
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PBJ/PBS	39
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PCJ NEW	32-33
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PLJ/PLS	35
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UFN	131
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VHB	165
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WTB	73
Υ	
YKV	137
YRO-01/-02/-03	192

ANALYTICAL BALANC

KERN Quick-Finder

KFU-V20 _

KFU-V30 _

KIP-V20M

KXP-V20 IP65_

KXC-TM_

KIB-TM_

How I quickly find the product I am looking for

Ahead of each product group allows you to base the search for a certain target group on weighing data you need such as readout, weighing capacity and main features for each model.

154

_136

149

_153

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And it's as simple as that – find the product you want in 2 steps:

- 1. Go to the product group index on page 3
- 2. Pick the appropriate product group and find the product you want using the Quick-Finder

Retailer Information

SALES CONDITIONS

All prices are valid as of January 1st 2024, Subject to change without notice. Current prices at www.kern-sohn.com. In Europe, all prices do not include the applicable V.A.T.

Delivery Conditions

We supply ex works Balingen, e.g. the transport costs are invoiced. With our contract logistics partners we always offer you shipping at a good rate. When shipping to islands or other more distant areas, or areas which are difficult to access, the transport costs may possibly be higher, please ask for details. Any goods supplied remain KERN's property until complete payment for the goods sold this procedure. has been received.



Delivery is usually via courier service.



the website.

When you see this symbol by truck, please ask for prices.n.

Extract from general terms and conditions Court of jurisdiction/Legal domicile: 72336 Balingen, Germany;

Commercial register N°: HRB 400865, AG Stuttgart; Managing director: Albert Sauter For the full Terms and Conditions, please refer to

https://www.kern-sohn.com/shop/en/ IMPRESSUM/AGB2/

All dimensions are approximate. Technical changes in the course of further development, printing faults, price changes and product changes are likely in individual cases, due to product modifications as the monthly installments constitute a direct cost well as error.

Sale or return

within 14 days of purchase. Not valid for order-spe cific adaptations such as special productions, cable extensions, special weights, etc. or test services such as calibration, verification, etc. Depending on the time and effort involved, there may be processing and storage costs, please ask for details.

Warranty

- → 3 years for products with list price ≥ € 500.00
- → 2 years for components as well as products with list price < € 500.00
- → 1 year for pallet truck scales Does not apply to consumables such as batteries, rechargeable battery packs, etc.

Balances in areas regulated by law (► Verification) must comply with the commercial error limits during the period of validity for verification - these are usually double the verification permissible error limits. If this period of validity for verification expires,

then reverification must be carried out. If, in order to pass the verification, it should be necessary to adjust the balance to comply with the verification permissible error limits, then this does not constitute a warranty claim.

SERVICE

KERN DirectCash

The guick, secure COD procedure for protection against non-payment. With the KERN DirectCash COD system, you can safely deliver orders to end customers with unknown credit rating, with no risk of non-payment. Please request further details on

Financing is available using KERN hire purchase -

Hire Purchase

easy and convenient. Hire Purchase gives you the option of purchasing any product from our range against a simple monthly installment. The product value is financed over the period of the agreement On payment of the last installment, the ownership of the contract item automatically transfers from the contractor to the contractee. The Hire Purchase Agreement can - if you so choose - be set for a period of between one and five years. This package includes the transfer of items as well as the guarantee for the entire transfer period.

Compared with buying the product, KERN hire purchase offers the advantage that the initial financial investment is largely unnecessary. This is particularly relevant when purchasing a number of products, for example when refitting a laboratory, a company department or a hospital ward. In addition and the item does not have to be capitalised by the

AFTER-SALES-SERVICE

Within 1 week at our plant in Balingen, transportation costs are additional. In urgent cases, if requested by customer, a replacement device will be provided until all repairs are completed; please ask.

Price reduction for a new device

If repair costs exceed the current value of the defective device, a new device will be offered for a discount price. This offer is valid only up to 2 years after warranty expiration.

Spare parts service

Usually within 48 hours, transportation costs are

MARKETING SUPPORT

KERN catalogues, brochures, branch prospectuses - your own personalised marketing tools This catalogue and branch prospectuses are

available free of charge. A neutral version of the catalogue, without the KERN address imprint, is also available free of charge for your marketing activities, larger quantities on request. On demand, your company logo and address can be printed on the back of the KERN catalogue free of charge, larger quantities on request. In this way you have got your own individual marketing tool. The KERN catalogue and branch prospectuses are available in the following languages: DE, EN, FR, IT, ES.

IMPORTANT NOTICE

Explosion hazard / Humidity

Our models are not suitable for rooms with a risk of explosion. Our models are also not suitable for rooms with a high level of air humidity (condensing) Please observe the applicable electrical regulations.

Earth's gravitational force

Electronic balances are subject to location regulations due to the earth's gravitational force. If location of use is changed, reverification and recalibration of the electronic balance is needed.

DAKKS CALIBRATION CERTIFICATE

Upon request, you will receive a DAkkS calibration certificate (Deutsche Akkreditierungsstelle GmbH - German accreditation point), which documents the precision of your balance in detail and also serves as your proof that you monitor your checking equipment in a Quality Management System to ISO 9001.

ACCESSORIES

Further extensive accessories for all our models can also be found in the KERN online shop

Product Group Index 2024









Display Devices, Platforms, Weighing Bridges, Load Cells

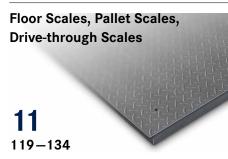




























Do you have questions about our products?

Our customer consultants will be pleased to assist you

UK, IE, IS, FR, Maghreb, BE, LUX



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DAkkS Calibration Service On Site

Recalibration Balances

DAkkS Calibration Service Inhouse
Test weights, balances & measuring instruments



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KERN Category Manager

You need advice and help or have special requests? Our service for you: our category managers advise you on all topics and look for the right product solution for your individual requirements. By telephone or by e-mail, just as it is most convenient for you.



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SOFTWARE EASYTOUCH

Wolfgang Schäfer Tel. +49 7433 9933-324 etsales@kern-sohn.com

KERN Hotlines			
Technical questions about our products?			1
You will find assistance here quickly: +49 7433	9933		
Service Hotline for general technical questions about your KERN product	→199	Medical Scales for all technical questions concerning our baby scales, personal scales, handrail scales, chair scales, wheelchair scales, dynanometers	→499
System Solutions Industry 4.0 for all technical questions concerning the interlocking of the latest information and communication technology with our scales, load cells and measuring devices as well as questions about KERN software	→200	SAUTER measuring instruments for all technical questions concerning our SAUTER measuring instruments, test benches, force measuring accessories (clamps etc.), SAUTER software	→555
Industrial Scales for all technical questions concerning our basic scales (laboratory & industry), pocket balances, school balances, bench scales, price-computing scales, platform scales,	→333	Moisture Analysers for all technical questions concerning our moisture analysers	→599
counting scales, counting systems, floor scales, pallet truck scales, crane scales, veterinary scales		Optical Devices for all technical questions concerning our microscopes, microscope cameras, refractometers, etc.	→777
Laboratory and Analytical Balances for all technical questions concerning our high quality precision balances, analytical balances (especially with electromagnetic force-compensated measuring systems, tuning fork and high application density)	→444	EasyTouch (Software) for all technical questions about the installation and commissioning of the EasyTouch software	→322



EIGHT GENERATIONS - WHAT A PASSION

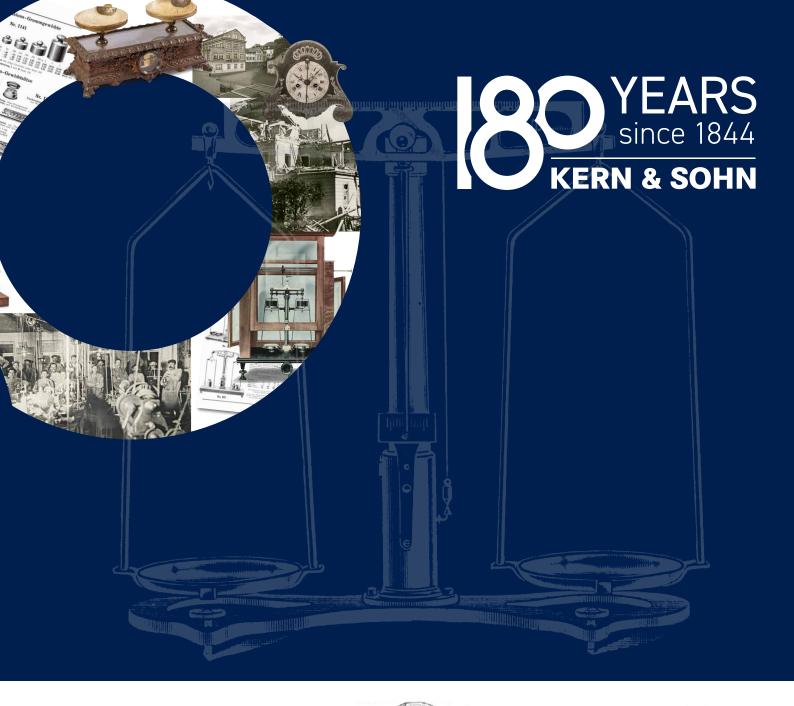
Our history as the oldest German precision balance manufacturer started over 250 years ago. In 1769 in the tranquil setting of Onstmettingen in the Swabian mountains, the village blacksmith, Johann Jakob Sauter I, forged an automatic balance. This had been developed by the pastor and inventor Philipp Matthäus Hahn, with whom he worked. Sauter divided up the scale and aligned the Hahn balance to the correct weight. Every balance was a one-off and adapted to suit the customers' requirements. Johann Jakob Sauter I was the family's first balance manufacturer.

He had no idea that the Sauter family would still be producing and selling balances over 250 years later, albeit from 1844 under the company name of KERN & SOHN.

Tradition, innovation and precision

Competence and handcrafted quality characterise the work of the Sauter family and this has carried the company through the toughest of times. The fate of the company hung by a thread through great misfortune on more than one occasion. Several times, an untimely death in the Sauter family shook the succession of the company. For one generation, the namesake of our company, Gottlieb Kern stepped in. This is how the KERN brand was created in 1844, and his successor Councillor of Commerce Albert Sauter was either unable or unwilling to change it.

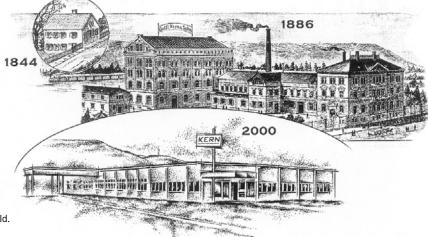
In spite of all the highs and lows, KERN balance manufacturing has maintained a stable course – for over 250 years. This has only been and remains possible due to constant regeneration and further development. A path for which we are extremely grateful, because it was not a given.



Throughout the world we could only find one other family which had been continuously involved with balance manufacture like KERN.

According to our research, there is also no other workshop or company that has been manufacturing precision balances continuously for 200 years. This means that KERN is not only the oldest German precision balance manufacturer, but probably also the oldest in the world.

Our story continues to move forward! On page 82/83 read more about today's generation of KERN and look to the future with us on page 178/179.



NEW IN → 2024

Innovative technology, new features, outstanding performance. In the Food and Industry sectors we have gone all out for you. You will be impressed by our new products for 2024!



Precisely weighed, accurately documented

→ KERN PCJ Precision Balance

The PCJ documents your precise weighing results in the alibi memory, paper-free. This means that the results from weighings which require verification can also be electronically evaluated and processed further.

For details, see *Precision Balances*



User friendly

→ KERN IFC Platform Scale

With the large backlit LCD display, reading the accurate weight values is child's play, even if the lighting conditions are poor. The intuitive operation is also very convenient.

For details, see Platform Scales



Fit for the industry of the future

→ KERN SXC Stainless Steel Scales

With its stainless steel platform, the hermetically-sealed load cell and the IP68 protected display device, the SXC is absolutely ideal for harsh industrial environments and applications which require high standards of hygiene. Up to four data interfaces enable the exchange of data and control commands as required, fully in line with Industry 4.0.

For details, see Food



The robust scale

→ KERN IXC Platform Scale

Tough industry standard meets simple operation: This stainless steel platform scale will impress you not only through its robust surface and large weighing range.

For details, see *Platform Scales*

Also new in our range:

- → KERN KBP-V20 Platform
- → KERN KFP-V40 Platform

For details, see *Platforms*







POCKET BALANCES

Pocket size precision

Pocket balances are the ideal helpers whenever mobility and high precision are required. Since they have fewer keys, operation is simple and fast. Different weighing units stored in the pocket balance, such as g, oz, ct, gn, etc., make them universally usable. Compact in size and well protected with a flap or protective cover, which can be used as a convenient taring container, the pocket balance is always a useful tool for mobile weighing.

- In production, to control of production weights or during the picking of small parts
- In quality control for the quick testing of small parts like plastic parts from injection moulding machines, milled parts, screws, etc.
- For mobile weighing, on-site sampling, and fast analysis wherever there's no power outlet
- In hobbies and sports, e.g. when filling gun powder, weighing parts from modelling kits etc.
- In commerce, for the fast determination of the weights of coins, jewellery, precious stones, etc.
- In the veterinary sector for the weighing of small animals, the mixing
- In the food sector for the preparation of spice or tea mixes, for the weighing of food in line with a diet sheet

Quick-Finder Pocket Balances

Readability [d]	Weighing capacity [Max]	Model	Price excl. of VAT	Page	DAYS	CAL EXT	UNIT	BATT
g [a]	g	KERN	ex works €		For an expl	lanation on the	e pictos, see t	he front flap
0,001	50	TGD 50-3C ₩	68,-	11	1	•	•	•
0,01	60	CM 60-2N	93,-	10	1	•	•	•
0,01	150	TGC 150-2	40,-	11	1	•	•	•
0,1	150	CM 150-1N	60,-	10	1	•	•	•
0,1	320	CM 320-1N	63,-	10	1	•	•	•
0,1	500	TGC 500-1	40,-	11	1	•	•	•
1	1000	TGC 1K-3	40,-	11	1	•	•	•
1	1000	CM 1K1N	60,-	10	1	•	•	•
			 Standard 	Option				



Pocket balance with integrated pocket calculator

Features

- Simple and convenient 4-key operation
- Hard case cover as protection against pressure and dust
- Robust, handy, well-protected
- · Integrated calculator
- Ready for use: Batteries included, 2×1.5 V AAA, operating time up to 33 h. Integrated AUTO-OFF function after 4 minutes to preserve the batteries



	κū		•	DAkkS
7	UNIT	BATT	1 DAY	+3 DAYS

KERN	CM 60-2N*	CM 150-1N*	CM 320-1N*	CM 1K1N					
Weighing capacity [Max] g	60	150	320	1000					
Readability [d] g	0,01	0,1 g	0,1 g	1 g					
Backlit display, digit height		LCD, 12 mm							
Dimensions of weighing plate W×D		70×8	0 mm						
Overall dimensions W×D×H		85×130)×25 mm						
Net weight		20	10 g						
Permissible ambient temperature		5 °C - 35 °C							
Price, excl. of VAT, ex works, €	93,-	60,-	63,-	60,-					
Option DAkkS Calibr. Certificate, €		963-12	27, 98,-	,					



Slim pocket balance with large stainless steel weighing plate and practical tare pan

Features

- · High-resolution pocket balance with particularly rapid reaction and stabilisation time, which means that you can work extremely efficiently
- · Particularly flat design
- 11 Cover made of shock proof plastic as protection against pressure and dust. Can also be used as a tare cup
- Stainless steel weighing plate, which makes cleaning easy and hygienic
- Ready for use: Batteries included, 2×CR2032, operating time up to 8,75 h. Integrated AUTO-OFF function after 4 minutes to preserve the batteries



Compact pocket carat balance for precision weighing of jewellery and precious stones

Features

- · Simple and convenient 4-key operation
- \bullet Can be switched over from g to ct, gn, dwt, ozt, oz at the touch of a key
- Innovative touchscreen: Large touch-sensitive, backlit touch display with very good contrast for easy operation and convenient reading
- · Hard case cover as protection against pressure and dust
- Stainless steel weighing plate, which makes cleaning easy and hygienic
- · Weighing pan standard
- Powder scale with Grain division (gn), ideal for sport shooters, reloaders etc. for self-filling cartridge cases
- USB cable for power supply as standard
- Ready for use: Batteries included, 4×1.5 V AAA, operating time up to 150 h. Integrated AUTO-OFF function after 5 minutes to preserve the batteries
- 2 Delivered in single design packaging















KERN	TGC 150-2	TGC 500-1	TGC 1K-3	TGD 50-3C ⊕
Weighing capacity [Max] g	150	500	1000	50 250 ct
Readability [d] g	0,01	0,1	1	0,001 0,005 ct
LCD display - backlit		yes		yes
LCD display - digit height		12 mm		20 mm
Dimensions of weighing plate W×D mm		81 mm		65 mm
Overall dimensions W×D×H	1	00×130×18 mi	m	96×150×64 mm
Net weight		200 g		250 g
Permissible ambient temperature		0 °C - 40 °C		5 °C - 35 °C
Price, excl. of VAT, ex works, €	40,-	40,-	40,-	68,-
Option DAkkS Calibr. Certificate, €	,	963-127, 98,-		963-127, 98,-





SCHOOL BALANCES

As entry-level models, KERN school balances cover the most important basic applications of laboratory balances and offer simple operation, easy readability and an optimal price-performance ratio. The KERN School balances can be used flexibly and independent of location thanks to battery operation and are therefore the ideal choice for school or teaching purposes.

Our recommendation: the EFS school balance in our product range, a space-saving and inexpensive allrounder for school teaching programs and universities.

Quick-Finder School Balances

Readability [d]	Weighing capacity [Max]	Model	Price excl. of VAT	Page	DAYS	CAL EXT	RS 232	PCS	RECIPE	BATT
g		KERN	ex works		For ar	explanat	ion on th	e nictos	see the fr	ont flan
	g 		€		101 41	<u> </u>		- piotoo,		one nap
0,001	100	EMB 100-3	230,-	14	<u> </u>	•				•
0,001	200	EMB 200-3	245,-	14	1	•				•
0,001	200	EMB 200-3V	275,-	15	1	•	•			•
0,001	300	EMS 300-3	305,-	16	1	•		•	•	•
0,01	200	EMB 200-2	140,-	14	1	•				•
0,01	500	EHA 500-2	95,-	17	1	•		•		•
0,01	500	EFS 500-2	120,-	13	1	•				•
0,01	600	EMB 600-2	180,-	14	1	•				•
0,01	1000	EMB 1000-2	225,-	14	11	•				•
0,01	2000	EMB 2000-2	240,-	14	1	•				•
0,01	2000	EMB 2000-2V	275,-	15	1	•	•			•
0,01	3000	EMS 3000-2	265,-	16	1	•		•	•	•
0,1	220	EFS 200-1S05	190,-	13	1	•				•
0,1	500	EMB 500-1	60,-	14	1	•				•
0,1	500	EMB 500-1BE	60,-	14	1	•				•
0,1	500	EHA 500-1	70,-	17	1	•		•		•
0,1	620	EFS 600-1S05	200,-	13	1	•				•
0,1	1000	EHA 1000-1	75,-	17	1	•		•		•
0,1	1200	EMB 1200-1	80,-	14	1	•				•
0,1	3000	EHA 3000-1	95,-	17	1	•		•		•
0,1	3000	EFS 3000-1	100,-	13	1	•				•
0,1	3000	EMB 3000-1	140,-	14	1	•				•
0,1	6000	EMB 6000-1	180,-	14	1	•				•
0,1	6000	EMS 6K0.1	190,-	16	1	•		•	•	•
0,1	12000	EMS 12K0.1	235,-	16	1	•		•	•	•
1	2200	EMB 2200-0	60,-	14	1	•				•
1	2200	EFS 2000-0S05	190,-	13	1	•				•
1	3000	EHA 3000-0	70,-	17	1	•		•		•
1	5200	EMB 5.2K1	60,-	14	1	•				•
1	5200	EFS 5000-0S05	200,-	13	1	•				•
1	6000	EMS 6K1	100,-	16	_	•		•	•	•
1	12000	EMS 12K1	105,-	16	<u></u>	•		•	•	•
5	5200	EMB 5.2K5	56,-	14	_	•				•
		ZMID GIZICO		• Ctandara	 					

Standard ○ Option













Perfect school balances for experimental teaching – easy to use, space-saving, stackable

Features

- Simple and convenient 2-key operation, making them ideal for use in schools and universities
- Tare function facilitates formulation work
- · Particularly flat design
- Secure and non-slip positioning with rubber feet
- 11 Stackable for space-saving storage
- 2 Practical battery operation using standard batteries ensures a high level of flexibility and freedom from mains adapters, sockets, chargers, etc.

Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface, plastic, W×D $134\times127~\text{mm}$
- Overall dimensions W×D×H 145×205×46,5 mm
- Battery operation, 4×1.5 V AA standard, operating time up to 200 h
- Integrated AUTO-OFF function to preserve the batteries
- Net weight approx. 0,45 kg
- Permissible ambient temperature 10 °C/40 °C

Accessories

 External universal mains adapter, with universal input and optional input socket adapters for EU, CH, GB, US, KERN YKA-27, € 43,-

Note: The models with the suffix -S05 are delivered in a set of 5 units. i.e. the price given in the table refers to 5 items. Cannot be delivered individually. The calibration prices refers to one single balance













Model	Weighing capacity	Readability	Reproducibility	Linearity		Price excl. of VAT	Optio DAkkS Calibr.	
KERN	[Max] g	[d] g	g	g	(balance)	ex works €	DAkkS KERN	€
EFS 500-2	500	0,01	0,01 g	± 0,03	1	120,-	963-127	98,-
EFS 200-1S05	220	0,1	0,1 g	± 0,3	5	190,-	963-127	98,-
EFS 600-1S05	620	0,1	0,1 g	± 0,3	5	200,-	963-127	98,-
EFS 3000-1	3000	0,1	0,1 g	± 0,3	1	100,-	963-127	98,-
EFS 2000-0S05	2200	1	1 g	± 3	5	190,-	963-127	98,-
EFS 5000-0S05	5200	1	1 g	± 3	5	200,-	963-128	118,-















Entry level laboratory balance with tremendous weighing performance

Features

- Simple and convenient 2-key operation
- Tare function facilitates formulation work
- · Particularly flat design
- Ready for use: Batteries included
- · A Ring-shaped draught shield standard, only for models with weighing plate size A, weighing space Ø×H 96×35 mm
- · Hook for underfloor weighing standard
- 11 Also available as KERN EMB 500-1BE Black Edition
- · Note: With the optional auxiliary set for density determination KERN YDB-04 also well suited for school and teaching operation, see Accessories

Technical data

- · Large LCD display, digit height 15 mm
- Dimensions weighing surface
- f A \emptyset 82 mm, plastic, with conductive lacquer
- **■** Ø 105 mm, plastic
- **©** Ø 150 mm, plastic, see larger picture
- · Overall dimensions W×D×H
- A 170×244×54 mm
- **B**, **C** 170×244×39 mm
- · Batteries included, 9 V block, respectively 2×1.5 V AA
- Net weight approx. 0,85 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- · Stainless steel weighing plate, only for models with weighing plate size B, KERN EMB-A02, **€ 29,-**
- External universal mains adapter, with universal input and optional input socket adapters for EU, CH, GB, US, KERN YKA-03N, € 38,-
- 2 Ancillary kit for density determination of liquids and solids with density > 1. Scope of supplies: Bridge for holding the beaker (Ø 102 mm), hook (H 139 mm), KERN YDB-04, € 27,-



















Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Price excl. of VAT	Option DAkkS Calibr.	
	[Max]	[d]				ex works	DAKKS Calibi.	Certificate
KERN	g	g	g	g		€	KERN	€
EMB 100-3	100	0,001	0,001 g	± 0,005	Α	230,-	963-127	98,-
EMB 200-3	200	0,001	0,001 g	± 0,005	Α	245,-	963-127	98,-
EMB 200-2	200	0,01	0,01 g	± 0,02	В	140,-	963-127	98,-
EMB 600-2	600	0,01	0,01 g	± 0,03	В	180,-	963-127	98,-
EMB 1000-2	1000	0,01	0,01 g	± 0,05	C	225,-	963-127	98,-
EMB 2000-2	2000	0,01	0,01 g	± 0,05	C	240,-	963-127	98,-
EMB 500-1	500	0,1	0,1 g	± 0,2	C	60,-	963-127	98,-
EMB 500-1BE	500	0,1	0,1 g	± 0,2	C	60,-	963-127	98,-
EMB 1200-1	1200	0,1	0,1 g	± 0,3	C	80,-	963-127	98,-
EMB 3000-1	3000	0,1	0,1 g	± 0,3	C	140,-	963-127	98,-
EMB 6000-1	6000	0,1	0,1 g	± 0,3	C	180,-	963-128	118,-
EMB 2200-0	2200	1	1 g	± 2	C	60,-	963-127	98,-
EMB 5.2K1	5200	1	1 g	± 3	C	60,-	963-128	118,-
EMB 5.2K5	5200	5	5 g	± 10	C	56	963-128	118













School balance with integrated density determination function

Features

- · Easy density determination: Thanks to the selfexplanatory, graphic-assisted control panel, the density of solids and liquids can be determined in seconds, making them ideal for use in schools and universities. Note: Balance and appropriate set for density determination should be ordered at the same time, see Accessories
- · Hook for underfloor weighing standard
- · Self-explanatory, graphic control panel, the workings steps can be understood immediately, even without operating instructions
- no learning time = reduces costs
- ideal for untrained users
- visualised process avoids operating errors
- · The 4 steps are carried out from left to right:
- 1 Tare the balance by pressing the [TARE] key
- 2 Select density determination mode (solids/liquids)
- 3 Weighing of samples/plummets in air
- 4 Weighing of samples/plummets in liquid. The density will be shown on the display right away
- · Particularly flat design

Technical data

- · Large LCD display, digit height 15 mm
- · Dimensions weighing surface, plastic
 - A Ø 82 mm
- **■** Ø 150 mm, see larger picture
- Overall dimensions W×D×H 175×250×55 mm
- Batteries included, 9 V block, operating time up to 12 h, AUTO-OFF function preserves the battery
- · Net weight approx. 0,85 kg
- Permissible ambient temperature 5 °C/35 °C
- · Also with carat weighing unit: EMB 200-3V: [Max] 1000 ct/ [d] 0,005 ct EMB 2000-2V: [Max] 10000 ct/ [d] 0,05 ct

Accessories

KERN EMB 200-3V:

- 5 Ancillary kit for density determination of liquids and solids with density > 1. Scope of supplies: Bridge for holding the beaker (Ø 102 mm), hook (H 139 mm), KERN YDB-04, € 27,-
- 6 Set for density determination of liquids and solids with density \leq / \geq 1. Scope of delivery: Weighing plate, beaker (Hר 71×51 mm), sample holder, plummet, KERN YDB-01, € 270,-
- · DAkkS-Calibration certificate for the plummet (20 g), KERN 962-335V, € 170,-

KERN EMB 2000-2V:

- T Set for density determination of liquids and solids with density $\leq/\geq 1$. Scope of delivery: Weighing plate, beaker (Hר 135×100 mm), sample holder, plummet KERN YDB-02, € 470,-
- · DAkkS-Calibration certificate for the plummet (200 g), KERN 962-338V, € 167,-
- . Thermometer, KERN YDB-A03, € 38,-





















Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Price excl. of VAT	Option DAkkS Calibr.	
KERN	[Max] g	[d] g	g	g		ex works €	DAkkS KERN	€
EMB 200-3V	200	0,001	0,002 g	± 0,005	А	275,-	963-127	98,-
EMB 2000-2V	2000	0,01	0,02 g	± 0,05	В	275,-	963-127	98,-









Entry level model in the low-cost range with large weighing plate

Features

- · Especially suitable for use in schools and universities, for example for biology, chemistry, physics
- Large, shock proof weighing plate made of plastic
- · Particularly flat design
- · Ergonomically optimised key pad with large keys and a high-contrast LCD display
- Secure and non-slip positioning with rubber feet
- · Adjusting program CAL for quick setting of the balance accuracy, external test weights at an additional price, see Test weights
- A Draught shield standard for models with weighing plate size A, weighing space W×D×H 145×145×65 mm

Technical data

- · Large LCD display, digit height 25 mm
- Dimensions weighing surface
- A Ø 105 mm, plastic, with conductive lacquer
- **B** W×D 175×190 mm, plastic, see larger picture
- Overall dimensions W×D×H 200×280×65 mm
- · Optional battery operation, 9 V block not included in scope of delivery, operating time up to 40 h
- · Mains adapter external, standard
- Net weight approx. 1,4 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

• 1 Stainless steel weighing plate, only for models with weighing plate size **B**, KERN EMS-A01, € 33,-





















Model	Weighing capacity			Linearity	Weighing plate	Price excl. of VAT	Optio	
KERN	[Max] g	[d] g	g	g		ex works €	DAKKS DAKKS KERN	€
EMS 300-3	300	0,001	0,002 g	± 0,005	Α	305,-	963-127	98,-
EMS 3000-2	3000	0,01	0,02 g	± 0,05	В	265,-	963-127	98,-
EMS 6K0.1	6000	0,1	0,1 g	± 0,3	В	190,-	963-128	118,-
EMS 12K0.1	12000	0,1	0,1 g	± 0,3	В	235,-	963-128	118,-
EMS 6K1	6000	1	1 g	± 3	В	100,-	963-128	118,-
EMS 12K1	12000	1	1 g	± 3	В	105,-	963-128	118,-











The compact all-round model with robust stainless steel weighing plate for use in laboratories, industries, and for teaching

Features

- Thanks to its compact, robust design, its bright display and high precision, this range is ideal for use in laboratories, quality control, production as well in schools and universities for teaching e.g. biology, chemistry and physics
- Large, shock proof weighing plate made from stainless steel, can be removed and therefore is hygienic and easy to clean
- 11 Particularly flat design
- Ergonomically-optimised key pad with large keys and a high-contrast LCD screen
- 2 Secure and non-slip positioning with rubber
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- Adjusting program CAL for quick setting of the balance accuracy using an external test weight at an additional price, see *Test weights*

Technical data

- · Large backlit LCD display, digit height 22 mm
- Dimensions weighing surface, stainless steel
 - A Ø 105 mm
- **B** W×D 120×120 mm, see larger picture
- Overall dimensions W×D×H 225×160×50 mm
- Optional battery operation, 2×1.5 V AA not included in scope of delivery, operating time up to 70 h
- Mains adapter external, standard
- Net weight approx. 0,50 kg
- Permissible ambient temperature 5 °C/40 °C

Accessories

• US-Plug, KERN YKA-40-US, € 26,-













Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Weighing plate	Price excl. of VAT ex works	Option DAkkS Calibr. DAkkS	
KERN	g	g	g	g		€	KERN	€
EHA 500-2	500	0,01	0,03 g	± 0,03	A	95,-	963-127	98,-
EHA 500-1	500	0,1	0,3 g	± 0,3	А	70,-	963-127	98,-
EHA 1000-1	1000	0,1	0,3 g	± 0,3	В	75,-	963-127	98,-
EHA 3000-1	3000	0,1	0,3 g	± 0,3	В	95,-	963-127	98,-
EHA 3000-0	3000	1	3 g	± 2	В	70,-	963-127	98,-

WHEN DESIGN MEETS PERFORMANCE

May we introduce...? The new models from the KERN IoT Line are celebrating their debut.

Together we can enjoy the shared, advanced-looking KERN design, the consistent and simplified handling, the high connectivity level, and a persuasive performace that operates across all devices.







Design

- + Trend-setting, high-quality KERN design
- + Recognisability through uniform product range
- + Reliable brand values are reflected visually and functionally in the product



Performance

- + Cross-device functionality and protocols
- + Consistently reliable performance
- + The latest technologies
- + Cross-device functionality and protocols



Philosophy

- + Sustainable due to high energy efficiency
- + Standardisation of design components across all units
- + Controlled value chain
- + Tested and monitored technology for maximum user safety



Are you curious about the models in the KERN IoT range and what opportunities they offer?

Then take a look at pages 20/21, because thanks to new technologies such as KUP and KCP these models are perfectly equipped for the wide range of challenges of Industry 4.0









User Interface

- + Uniform, simplified user guidance
- + Problem-free commissioning, use and expansion
- + Cross-model software



Service

- + Fast and competent help from our IoT specialists
- + Even more efficient repair process
- + Accessories can be flexibly combined

Note: Our KERN IoT accessories can be easily combined with all our IoT models.

Find the right printer and other practical accessories in *Accessories* and on the internet www.kern-sohn.com

ARE YOU READY?

With the KERN Universal Port (KUP) and the KERN Communication Protocol (KCP) we ensure the perfect integration of your KERN balance into production or process chains for a complete, simplified work process.

Our products will make sure you are prepared for the future of weighing in the Internet of Things. Get IoT ready – with the IoT models from KERN.

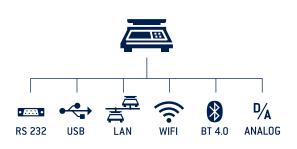


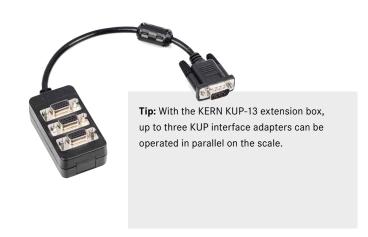
KERN Universal Port (KUP)

The integrated KERN Universal Port (KUP) allows the connection of external KUP interface adapters such as RS-232, USB, Bluetooth, WiFi, Analogue, Ethernet etc.

The outstanding advantage here is that the KUP interface adapters are simply plugged in, i.e. retrofitting interfaces is conveniently possible without opening the scale housing or complicated installation.

The interface adapters enable convenient transmission of weighing data to networks, PCs, smartphones, tablets, laptops, printers etc. In addition, control commands and data inputs can also be sent to the scale via the connected devices.







KERN Communication Protocol (KCP)

The KERN Communication Protocol (KCP) permits searching and remote control of the balance through computers or CRM/ERP systems using the KERN Communication Protocol. KCP is a standardised interface command structure for KERN balances and other measuring instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN models with KCP to computers, industrial control systems and other digital systems.

In a large number of cases the KERN Communication Protocol is compatible with the MT-SICS protocol. KCP is available through all KUPs, and on the KERN KIB-TM display device through the interfaces available.

KCP - Export ("Outbound") - the Highlights

- Stable, immediate weight
- · Live transfer of weights
- Storing of gross weight, tare weight, net weight, stability, date, time etc., in the tamper-proof Alibi memory
- Output of the weighing result in percent
- Output of the weighing result in pieces (piece-counting function)
- Output of the weight at freely-definable timed intervals
- · and much more

KCP - Import ("Inbound") - the Highlights

- Recall of the central device data
- Setup or recall of an individual device ID number
- Setting or searching for a tare value (pre-tare value) externally
- Recall of stored weighing results from the alibi memory
- Carrying out external adjustment/ linearization
- Setting the reference values in the balance externally and outputting the weighing result in percent or in pieces
- Setting a network address for the balance (IP) – also for WiFi
- · and much more

Still have questions?

We will be happy to give you more comprehensive information on this topic – talk to us:

Hotline +49 7433 9933-0 www.kern-sohn.com



PRECISION BALANCES

Here you'll find a complete summary of the KERN laboratory scales series and their positioning within the precision scales segment on the basis of application, price-performance ratio and functional volume

PREMIUM LABORATORY BALANCES

PBS/PBJ PES/PEJ PES/PEJ	*** ** **
STANDARD LABORATORY BALANCES	
PLS/PLJ PNS/PNJ EW/EG PWS 572	*** ** **
BASIC LABORATORY BALANCES PCB PCB PCB PCB PCB PCD PFB	*** **

PRECISION BALANCES

KERN school balances

are entry-level devices in the field of laboratory balances, and they cover basic applications. They feature simple operation and the very best price/performance ratio. In addition, they can be battery-operated as an alternative to a main power source. This means that they have the flexibility to be used in different locations. See *School Balances*

KERN Basic laboratory balances

are used in laboratory applications mostly as single-user balances for sample preparation, etc. They are fitted with all useful laboratory functions which will support the user in a helpful way. With their strain gauge measuring principle, they are used anywhere where individual weighings are carried out, such as, for example, checkweighing. These devices are often connected to printers or local Pcs using the standard, integrated RS-232 data interface.

KERN Basic standard laboratory balancesn

offer you all the tools you would need for effective and accurate work in your laboratory environment. All important laboratory functions such as a recipe weighing function or data interfaces are on board at all times. But above all, the high-quality measuring principles of these balances such as force compensation or tuning fork measuring principle, allow them to be used in dosing procedures with very small weight changes and rapid display. In addition these balances are often fitted with automatic internal adjustment, which means the balance can be used in any location.

KERN premium laboratory balances

are right at the top of the precision balance segment. The numerous equipment features of the standard balances are complemented by high-quality materials with robust, sturdy construction, high-quality, high-performance weighing systems, optimised operating sequences, speed benefits.

Tip: Together with the innovative KERN EasyTouch app, a premium laboratory balance supports its users in their typical workflows and increases the range of functions of the balance. In this way these scales can be operated more efficiently and quickly than devices from other quality classes. In particular, these balances are used in demanding laboratory applications and anywhere where the environmental conditions are not ideal because of vibrations or other interference, but where, naturally, the balance is expected to provide accurate weighing results. Another field of application for these balances is the pharmaceutical industry, which is subject to particularly demanding requirements such as, for example, the GLP (Good Laboratory Practice).



Tip

Transform your scale into a powerful weighing system! Using the KERN EasyTouch App even a simple scale can be made into a powerful weighing system, offering a wide range of functions. You simply have to install the KERN EasyTouch App on your PC or tablet (Windows® or Android®), connect the balance (either with cable or wireless), activate the App and you will be able to control your balance straightaway over your PC or tablet. See page 137.

If you have further questions on the subject of "Which balance is best for my application?", then please ask your personal KERN Category Manager who will be happy to help you.

Quick-Finder Precision Balances

Readability [d]	Weighing capacity [Max]	Model	Price excl. of VAT ex works	Page	DAYS	M	CAL INT	CAL EXT	RS 232	GLP	GLP PRINTER	PCS	-√+ ⊙ 3°) TOL	BATT	ACCU
g	g	KERN	€				For an	explana	ition on	the pic	tos, see	the fro	nt flap		
0,001	60	440-21A	380,-	30	1			•	•		•	•		•	0
0,001	120	PFB 120-3	370,-	27	1			•	•		•	•	•		0
0,001	200	PCB 200-3	340,-	28 27	1			•	<u> </u>		•	•	•	•	0
0,001 0,001	200	PFB 200-3 EW 220-3NM	390,- 840,-	37	<u>'</u> 1			•	•		•	•	•		0
0,001	220	EG 220-3NM	1060,-	37	1	0	•		•		•	•			
0,001	240	572-30	750,-	34	1			•	0		•	•	•		0
0,001	250	PCD 250-3	350,-	26	1			•	•		•	•		•	0
0,001	300	PFB 300-3	420,-	27	1			•	•		•	•	•		0
0,001	300	EWJ 300-3	600,-	31	1		•		•		•	•	•		0
0,001	300	EWJ 300-3H	620,-	31	1		•		•		•	•	•		0
0,001	300	572-31	765,-	34	1			•	0		•	•	•		0
0,001	350	PCD 300-3	390,-	26	1			•	• •		•	•		•	0
0,001 0,001	360 420	PCB 300-3 572-32	360,- 775,-	28 34	1			•	0		•	•	•		0
0,001	420	PLS 420-3F	880,-	35	1			•	•	•		•			
0,001	420	PLJ 420-3F	960,-	35	1		•		•	•		•	•		
0,001	420	EW 420-3NM	970,-	37	1			•	•		•	•			0
0,001	420	EG 420-3NM	1160,-	37	1	0	•		•		•	•			0
0,001	600	PFB 600-3	500,-	27	1			•	•		•	•	•		0
0,001	600	EWJ 600-3	700,-	31	1		•		•		•	•	•		0
0,001	620	PNS 600-3	820,-	36	1			•	•	•		•			
0,001	620	PNJ 600-3M	950,-	36	1	0	•		•	•		•			
0,001	620	EW 620-3NM	1080,-	37	1			•	•		•	•			0
0,001	620	EG 620-3NM	1300,-	37	1	0	•		•		•	•			0
0,001	620	PES 620-3M	1500,-	40 39	1			•	•	•	•	•	•		0
0,001	620 620	PBS 620-3M PEJ 620-3M	1750,- 1800,-	40	1	0	•		•		•	•	•		
0,001	620	PBJ 620-3M	2050,-	39	1		•			•		•			
0,001	720	PLS 720-3A	1150,-	35	1			•	•	•		•	•		
0,001	720	PLJ 720-3A	1300,-	35	1		•		•	•		•	•		
0,001	720	PLJ 720-3AM	1350,-	35	1	0	•		•	•		•	•		
0,001	1200	PLS 1200-3A	1180,-	35	1			•	•	•		•	•		
0,001	1200	PLJ 1200-3A	1380,-	35	1		•		•	•		•	•		
0,001	2100	PLJ 2000-3A	1900,-	35	1		•		•	•		•	•		
0,01	200	440-33N	300,-	30	1			•	•		•	•	-	•	0
0,01	300	PCB 300-2	270,-	28	1			•	0		•	•	•	•	0
0,01	400	440-35N	350,-	30 27	1			•	•		•	•	•	•	0
0,01	600	PFB 600-2 440-35A	320,- 380,-	30	1			•	•		•	•		•	0
0,01	600	PCJ 600-2M	430,-	32	1	0	•		0	•		•		•	0
0,01	600	EWJ 600-2SM	500,-	31	1	0	•					•	•		0
0,01	600	EWJ 600-2M	510,-	31	1	0	•		•		•	•	•		0
0,01	820	EW 820-2NM	760,-	37	1			•	•		•	•			0
0,01	820	PWS 800-2	1120,-	38	1			•	•		•	•	•	0	
0,01	1200	PFB 1200-2	320,-	27	1			•	•		•	•	•		0
0,01	1200	PCB 1000-2	330,-	28	1			•	0		•	•	•	•	0
0.01	1600		735,-	34	1				0		•	•	•		0
0,01		572-33													
0,01	2000	PFB 2000-2	340,-	27	1			•	•						
0,01 0,01	2000 2200	PFB 2000-2 EW 2200-2NM	340,- 930,-	27 37	1			•	•		•	•			0
0,01 0,01 0,01	2000 2200 2200	PFB 2000-2 EW 2200-2NM PES 2200-2M	340,- 930,- 1050,-	27 37 40	1 1 1				•		•	•	•		0
0,01 0,01 0,01 0,01	2000 2200 2200 2200	PFB 2000-2 EW 2200-2NM PES 2200-2M EG 2200-2NM	340,- 930,- 1050,- 1110,-	27 37 40 37	1 1 1 1	0	•	•	•		•	•	•		
0,01 0,01 0,01 0,01 0,01	2000 2200 2200 2200 2200 2200	PFB 2000-2 EW 2200-2NM PES 2200-2M EG 2200-2NM PEJ 2200-2M	340,- 930,- 1050,- 1110,- 1350,-	27 37 40 37 40	1 1 1 1	0	•	•	•		•	•	•		0
0,01 0,01 0,01 0,01 0,01 0,01	2000 2200 2200 2200 2200 2400	PFB 2000-2 EW 2200-2NM PES 2200-2M EG 2200-2NM PEJ 2200-2M 572-35	340,- 930,- 1050,- 1110,- 1350,- 750,-	27 37 40 37 40 34	1 1 1 1 1			•	•		•	•	•		0
0,01 0,01 0,01 0,01 0,01 0,01 0,01	2000 2200 2200 2200 2200 2200	PFB 2000-2 EW 2200-2NM PES 2200-2M EG 2200-2NM PEJ 2200-2M	340,- 930,- 1050,- 1110,- 1350,- 750,- 350,-	27 37 40 37 40	1 1 1 1			•	•		•	•	•	•	0
0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01	2000 2200 2200 2200 2200 2400 2500	PFB 2000-2 EW 2200-2NM PES 2200-2M EG 2200-2NM PEJ 2200-2M 572-35 PCD 2500-2	340,- 930,- 1050,- 1110,- 1350,- 750,-	27 37 40 37 40 34 26	1 1 1 1 1 1			•	•		•	•	•	•	0 0
0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01	2000 2200 2200 2200 2200 2400 2500 3000	PFB 2000-2 EW 2200-2NM PES 2200-2M EG 2200-2NM PEJ 2200-2M 572-35 PCD 2500-2 PFB 3000-2	340,- 930,- 1050,- 1110,- 1350,- 750,- 350,- 370,-	27 37 40 37 40 34 26 27	1 1 1 1 1 1 1		•	•	•		•	•	•	•	0 0 0
0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01	2000 2200 2200 2200 2200 2400 2500 3000 3000 3000 3200	PFB 2000-2 EW 2200-2NM PES 2200-2M EG 2200-2NM PEJ 2200-2M 572-35 PCD 2500-2 PFB 3000-2 EWJ 3000-2 572-37 PNS 3000-2	340,- 930,- 1050,- 1110,- 1350,- 750,- 350,- 370,- 550,- 765,- 740,-	27 37 40 37 40 34 26 27 31 34 36	1 1 1 1 1 1 1 1 1 1 1		•	•	•	•	• • • • • • • • • • • • • • • • • • •	•	•	•	0 0 0 0
0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01	2000 2200 2200 2200 2200 2400 2500 3000 3000 3000 3200 3200	PFB 2000-2 EW 2200-2NM PES 2200-2M EG 2200-2NM PEJ 2200-2M 572-35 PCD 2500-2 PFB 3000-2 EWJ 3000-2 572-37 PNS 3000-2 PNJ 3000-2M	340,- 930,- 1050,- 1110,- 1350,- 750,- 350,- 370,- 550,- 765,- 740,- 890,-	27 37 40 37 40 34 26 27 31 34 36	1 1 1 1 1 1 1 1 1 1 1 1		•	•		•	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•		0 0 0 0 0 0
0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01	2000 2200 2200 2200 2400 2500 3000 3000 3000 3200 3200 3500	PFB 2000-2 EW 2200-2NM PES 2200-2M EG 2200-2NM PEJ 2200-2M 572-35 PCD 2500-2 PFB 3000-2 EWJ 3000-2 572-37 PNS 3000-2 PNJ 3000-2M PCD 3000-2	340,- 930,- 1050,- 1110,- 1350,- 750,- 350,- 370,- 550,- 765,- 740,- 890,- 390,-	27 37 40 37 40 34 26 27 31 34 36 36	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	•	•			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0	•	•	0 0 0 0 0 0
0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01	2000 2200 2200 2200 2400 2500 3000 3000 3000 3200 3200 3500 3600	PFB 2000-2 EW 2200-2NM PES 2200-2M EG 2200-2NM PEJ 2200-2M 572-35 PCD 2500-2 PFB 3000-2 EWJ 3000-2 572-37 PNS 3000-2 PNJ 3000-2M PCD 3000-2 PCB 3000-2	340,- 930,- 1050,- 1110,- 1350,- 750,- 350,- 370,- 550,- 765,- 740,- 890,- 390,- 350,-	27 37 40 37 40 34 26 27 31 34 36 36 26 28	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	•	•			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01	2000 2200 2200 2200 2400 2500 3000 3000 3000 3200 3200 3500 3600 4200	PFB 2000-2 EW 2200-2NM PES 2200-2M EG 2200-2NM PEJ 2200-2M 572-35 PCD 2500-2 PFB 3000-2 EWJ 3000-2 572-37 PNS 3000-2 PNJ 3000-2M PCD 3000-2 PCB 3000-2 572-39	340,- 930,- 1050,- 1110,- 1350,- 750,- 350,- 370,- 550,- 765,- 740,- 890,- 390,- 350,- 775,-	27 37 40 37 40 34 26 27 31 34 36 36 26 28 34	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	•	•		•	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		•	•	0 0 0 0 0 0
0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01	2000 2200 2200 2200 2400 2500 3000 3000 3000 3200 3500 3600 4200 4200	PFB 2000-2 EW 2200-2NM PES 2200-2M EG 2200-2NM PEJ 2200-2M 572-35 PCD 2500-2 PFB 3000-2 EWJ 3000-2 572-37 PNS 3000-2 PNJ 3000-2M PCD 3000-2 PCB 3000-2 572-39 PLS 4200-2F	340,- 930,- 1050,- 1110,- 1350,- 750,- 350,- 370,- 550,- 765,- 740,- 890,- 390,- 350,- 775,- 830,-	27 37 40 37 40 34 26 27 31 34 36 36 26 28 34	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	•	•		•	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		•	•	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01 0,01	2000 2200 2200 2200 2400 2500 3000 3000 3000 3200 3500 3600 4200 4200 4200	PFB 2000-2 EW 2200-2NM PES 2200-2M EG 2200-2NM PEJ 2200-2M 572-35 PCD 2500-2 PFB 3000-2 EWJ 3000-2 572-37 PNS 3000-2 PNJ 3000-2M PCD 3000-2 PCB 3000-2 572-39 PLS 4200-2F PLJ 4200-2F	340,- 930,- 1050,- 1110,- 1350,- 750,- 350,- 370,- 550,- 765,- 740,- 890,- 390,- 350,- 775,- 830,- 950,-	27 37 40 37 40 34 26 27 31 34 36 36 26 28 34 35 35	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	•	• • • • • • • • • • • • • • • • • • •		•	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		•	•	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0,01 0,01	2000 2200 2200 2200 2200 2400 2500 3000 3000 3200 3200 3500 3600 4200 4200 4200	PFB 2000-2 EW 2200-2NM PES 2200-2M EG 2200-2NM PEJ 2200-2M 572-35 PCD 2500-2 PFB 3000-2 EWJ 3000-2 572-37 PNS 3000-2 PNJ 3000-2M PCD 3000-2 PCB 3000-2 572-39 PLS 4200-2F PLJ 4200-2F EW 4200-2NM	340,- 930,- 1050,- 1110,- 1350,- 750,- 350,- 370,- 550,- 765,- 740,- 890,- 390,- 350,- 775,- 830,- 950,- 1030,-	27 37 40 37 40 34 26 27 31 34 36 36 26 28 34 35 35 37	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	•	•		•	0 0 0 0 0		•	•	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0,01 0,01	2000 2200 2200 2200 2200 2400 2500 3000 3000 3200 3200 3500 3600 4200 4200 4200 4200 4200	PFB 2000-2 EW 2200-2NM PES 2200-2M EG 2200-2NM PEJ 2200-2M 572-35 PCD 2500-2 PFB 3000-2 EWJ 3000-2 572-37 PNS 3000-2 PNJ 3000-2M PCD 3000-2 PCB 3000-2 572-39 PLS 4200-2F PLJ 4200-2F EW 4200-2NM EG 4200-2NM	340,- 930,- 1050,- 1110,- 1350,- 750,- 350,- 370,- 550,- 765,- 740,- 890,- 390,- 350,- 775,- 830,- 950,- 1030,- 1220,-	27 37 40 37 40 34 26 27 31 34 36 36 26 28 34 35 35 37 37	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	•	• • • • • • • • • • • • • • • • • • •		•	• • • • • • • • • • • • • • • • • • •		•	•	
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[●] Standard ○ Option

Quick-Finder Precision Balances

Readability	Weighing capacity	Model	Price excl. of VAT	Page	DAYS	M	CAL INT	CAL EXT	RS 232	GLP	GLP	PCS	-√+ ③ ③) TOL	BATT	ACCU
[d]	[Max]		ex works												
B	g	KERN	€				For an	explan	ation or	the pic	tos, see	the fro	nt flap		
0,01	4200	PBJ 4200-2M	1900,-	39	1	0	•		•	•		•			
0,01	6000	PFB 6000-2	450,-	27	1			•	•		•	•	•		0
0,01	6000	EWJ 6000-2	650,-	31	1		•		•		•	•	•		0
0,01	6200	EW 6200-2NM	1120,-	37	1			•	•		•	•			0
0,01	6200	PLS 6200-2A	1160,-	35	1			•	•	•		•	•		
0,01	6200	PLJ 6200-2A	1280,-	35	1		•		•	•		•	•		
0,01	6200	PLJ 6200-2AM	1330,-	35	1	0	•		•	•		•	•		
0,01	6200	PES 6200-2M	1550,-	40	1			•							0
0,01	6200	PBS 6200-2M	1850,-	39	1			•	•	•		•			
0,01	6200	PBJ 6200-2M	2300,-	39	1	0	•		•	•		•			
0,01	8200	PLS 8000-2A	1380,-	35	1			•	•	•		•	•		
0,05	12000	572-45	750,-	34	1			•	0		•	•	•		0
0,05	20000	572-55	770,-	34	1			•	0		•	•	•		0
0,1	400	440-43N	220,-	30	1			•	•		•	•		•	0
0,1	1000	440-45N	250,-	30	1			•	•		•	•		•	0
0,1	2000	PCB 2000-1	260,-	28	1			•	0		•	•	•	•	0
0,1	2000	440-47N	300,-	30	1			•	•		•	•		•	0
0,1	3200	PWS 3000-1	1020,-	38	1			•	•		•	•	•	0	
0,1	4000	440-49N	350,-	30	1			•	•		•	•		•	0
0,1	6000	PCD 6K-4	270,-	26	1			•	•		•	•		•	0
0,1	6000	PCB 6000-1	280,-	28	1			•	0		•	•	•	•	0
0,1	6000	PFB 6000-1	300,-	27	1			•	•		•	•	•		0
0,1	6000	440-49A	380,-	30	1			•	•		•	•		•	0
0,1	6000	PCJ 6000-1M	440,-	32	1	0	•		0	•		•	•	•	0
0,1	6000	EWJ 6000-1SM	480,-	31	1	0	•					•	•		
0,1	6000	EWJ 6000-1M	490,-	31	1	0	•		•		•	•	•		0
0,1	8200	PWS 8000-1	1150,-	38	1			•	•		•	•	•	0	
0,1	8200	PBJ 8200-1M	1890,-	39	1	0	•		•	•		•			
0,1	10000	PCD 10K0.1	290,-	26	1			•						•	0
0,1	10000	PCB 10000-1	300,-	28	1			•	0				•	•	0
0,1	10000	572-43	730,-	34	1			•	0			•	•		0
0,1	12000	PNS 12000-1	720,-	36	1			•	•	•		•			
0,1	12000	PNJ 12000-1M	870,-	36	1	0	•		•	•		•			
0,1	12000	EW 12000-1NM	880,-	37	1			•	•		•	•			0
0,1	15000	PES 15000-1M	1450,-	40	1			•	•		•	•	•		0
0,1	16000	572-49	735,-	34	1			•	0		•	•	•		0
0,1	17000	FES 17K-4	2850,-	41	1			•	•	•		•	•		0
0,1	17000	FEJ 17K-4M	3080,-	41	1		•		•	•		•	•		0
0,1	20000	PLS 20000-1F	760,-	35	1			•	•	•		•	•		
0,1	24000	572-57	760,-	34	1			•	0		•	•	•		0
0,1	31000	PES 31000-1M	2450,-	40	1			•	•		•	•	•		0
0,1	33000	FES 33K-4	3000,-	41	1			•	•	•		•	•		0
0,1	33000	FEJ 33K-4M	3340,-	41	1		•		•	•		•	•		0
0,1 1	6200 62000	FES 62K-4D	3300,-	41	1			•	•	•		•	•		0
0,1 1	6200 62000	FEJ 62K-4DM	3650,-	41	1	0	•		•	•		•	•		0
1	4000	440-51N	170,-	30	1			•	•		•	•		•	0
1	6000	PCB 6000-0	190,-	28	1	•		•	0		•	•	•	•	0
1	6000	440-53N	230,-	30	1			•	•		•	•		•	0
1	10000	PCD 10K-3	210,-	26	1			•	•		•	•		•	0

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● Standard ○ Option











High-resolution precision balance with removable display for maximum flexibility

Features

- Laboratory balance with separate platform: Ideal when working in a glove bag or fume cupboard. Particularly practical for weighing toxic, volatile or contaminated substances
- · PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- · Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- · Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- A Draught shield standard for models with weighing plate size A, weighing space W×D×H 146×146×80 mm
- · Protective working cover included with delivery

Technical data

- · Large backlit LCD display, digit height 21 mm
- · Dimensions weighing surface
- A Ø 105 mm, plastic, with conductive lacquer
- B W×D 160×160 mm, stainless steel, see larger picture
- · Optional battery operation, 9 V block not included in scope of delivery, operating time up to 12 h, AUTO-OFF function to preserve the battery
- · Dimensions of display device W×D×H 140×46×82 mm
- Cable length of display device approx. 1,2 m
- Net weight approx. 1,2 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- · Protective working cover over the display device, scope of delivery: 5 items, KERN PCD-A05S05, € 44,-
- 2 Stand to elevate display device, height of stand approx. 250 mm, KERN PCD-A03, € 66,-
- · Internal rechargeable battery pack, operating time up to 24 h without backlight, charging time approx. 10 h, KERN PCD-A04, € 60,-
- 3 Foot switch, ideal when the application requires two free hands. TARE or PRINT function can be selected. Scope of delivery: foot switch, junction box, connection cable. For the PRINT function you will need the RS-232 interface cable, KERN YKF-01, € 100,-
- · Individual header data: the free software can be used to print 4 header lines on the printout when using printers 911-013, YKN-01, YKB-01N and YKE-01 (in combination with YKI-02)

Options

· Further details, plenty of further accessories and suitable printers see Accessories































CAL EXT RS 2	GLP 32 PRINTER	PCS RECIPE	% PERCENT UNIT	MOVE BATT MULTI		ACCU +3 DAYS	
Model		Weighing capacity	Readability	Reproducibility	Linearity	Overall dimensions	Weighing plate
		[Max]	[d]			$W \times D \times H$	`

KERN	capacity [Max] g	[d] g	g	g	W×D×H mm		excl. of VAT ex works €	DAkkS Calibr. Co DAkkS KERN	ertificate €
PCD 250-3	250	0,001	0,002	± 0,005	165×280×141	Α	350,-	963-127	98,-
PCD 300-3	350	0,001	0,002	± 0,005	165×280×141	Α	390,-	963-127	98,-
PCD 2500-2	2500	0,01	0,02	± 0,05	165×280×75	В	350,-	963-127	98,-
PCD 3000-2	3500	0,01	0,02	± 0,05	165×280×75	В	390,-	963-127	98,-
PCD 6K-4	6000	0,1	0,1	± 0,3	165×280×75	В	270,-	963-128	118,-
PCD 10K0.1	10000	0,1	0,1	± 0,3	165×280×75	В	290,-	963-128	118,-
PCD 10K-3	10000	1	1	+ 3	165×280×75	В	210	963-128	118











Quick-display precision balance with user-friendly concept of operation mode now also with Checkweighing function

Features

- NEW: KERN PFB 600-3, PFB 6000-2: The measuring system's exceptionally high resolution of points ensures the highest level of accuracy with large weighing ranges
- · NEW: Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading
- · Standardised, convenient KERN concept of operation: All primary functions have their own key on the keypad
- Compact size, practical for small spaces
- Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- · Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result

· Draught shield standard for models with weighing plate size A, B, removable, Weighing space W×D×H 140×150×65 mm

Technical data

- · Backlit LCD display, digit height 21 mm
- Dimensions weighing surface, stainless steel
- A Ø 80 mm
- **B** Ø 120 mm
- © W×D 190×180 mm, see larger picture
- Overall dimensions W×D×H 210×315×90 mm
- Permissible ambient temperature 15 °C/30 °C

Accessories

- · Protective working cover, scope of delivery 5 items, KERN PFB-A12S05, € 44,-
- · Bluetooth data interface for wireless data transfer to PC or tablets, supports Bluetooth 2.0 and 4.0, must be ordered at purchase,
- KERN PFB-A10, € 100,-
- · Internal rechargeable battery pack, operating time up to 72 h without backlight, charging time approx. 6,5 h, must be ordered at purchase, KERN EWJ-A06, € 45,-
- · Further details, plenty of further accessories and suitable printers see Accessories

































Model KERN	Weighing capacity [Max] g	Readability Reproducibility [d] g g		Linearity g	Weighing plate	Price excl. of VAT ex works €	Options DAkkS Calibr. C DAkkS KERN	
PFB 120-3	120	0,001	0,002	± 0,003	Α	370,-	963-127	98,-
PFB 200-3	200	0,001	0,002	± 0,004	A	390,-	963-127	98,-
PFB 300-3	300	0,001	0,003	± 0,005	Α	420,-	963-127	98,-
PFB 600-3	NEW 600	0,001	0,003	± 0,003	В	500,-	963-103	162,-
PFB 600-2	600	0,01	0,01	± 0,02	В	320,-	963-127	98,-
PFB 1200-2	1200	0,01	0,02	± 0,03	В	320,-	963-127	98,-
PFB 2000-2	2000	0,01	0,02	± 0,04	В	340,-	963-127	98,-
PFB 3000-2	3000	0,01	0,03	± 0,05	В	370,-	963-127	98,-
PFB 6000-2	6000	0,01	0,03	± 0,03	C	450,-	963-104	184,-
PFB 6000-1	6000	0,1	0,1	± 0,2	C	300,-	963-128	118,-











The standard in the laboratory, ideal for a wide range of applications for Industry 4.0

Features

- · Compatible with school-specific software solutions such as, for example, Vernier ® or LabQuest ®. Thanks to the KERN School Protocol, as part of technical experiments, weighing data can be transferred to a PC, laptop, etc. for evaluation and display using the USB data interface
- · Industry 4.0: The integrated KERN Universal Port (KUP) allows the connection of external KUP interface adapters such as RS-232, USB, Bluetooth, WIFI, Analogue, Ethernet etc. The outstanding advantage here is that the KUP interface adapters are simply plugged in, i.e. retrofitting interfaces is conveniently possible without opening the scale housing or complicated installation. The interface adapters enable convenient transmission of weighing data to networks, PCs, smartphones, tablets, laptops, printers etc. In addition, control commands and data inputs can also be sent to the scale via the connected devices.

Tip: with the KERN KUP-13 extension box, up to three KUP interface adapters can be operated in parallel on the scale.

- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- · For further information on KUP and KCP see page 20/21
- Standardised, simplified concept of operation
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- · With the recipe function you can weigh the different ingredients of a mixture. As a check, you can also call up the total weight of all the ingredients
- Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading
- · Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar

- A special Anti-Shock system between the weighing plate and weighing cell reduces vibrations during the weighing process and in this way ensures rapid, reliable weighing results
- A Ring-shaped draught shield standard, only for models with weighing plate size A, weighing space Ø×H 90×40 mm
- Protective working cover included with delivery







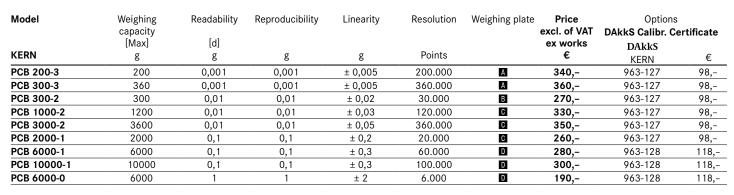
Technical data

- Backlit LCD display, digit height 21 mm
- · Dimensions weighing surface
- A Ø 82 mm
- **B** Ø 105 mm
- C W×D 130×130 mm
- D W×D 150×170 mm, see larger picture
- · Weighing plate material
 - A plastic, with conductive lacquer
 - B, C, D stainless steel
- Overall dimensions (without draught shield)
 W×D×H 163×245×65 mm
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 20 h, AUTO-OFF function to preserve the battery
- Permissible ambient temperature -10 $^{\circ}\text{C}/40~^{\circ}\text{C}$

Accessories

- Protective working cover, scope of delivery:
 5 items, KERN YBA-A12SO5, € 44,-
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, € 35,-
- External data interface RS-232, interface cable included, KERN KUP-01, € 60,-
- External data interface USB, interface cable included, KERN KUP-03, € 75,-
- · Interface adapter Ethernet, KERN KUP-04, € 115,-
- Interface adapter WiFi, KERN KUP-05, € 75,-
- Bluetooth interface adapter, KERN KUP-06, € 99,-
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13, € 75,-
- Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs, for more details see internet, scope of supplies:
 1 CD, 1 license, KERN SCD-4.0, € 210,-
- Further details, plenty of further accessories and suitable printers see Accessories

STAN	IDARD														
CAL	EXT	₹ KUP	KCP PROTOCOL	GLP PRINTER	PCS	RECIPE	% PERCENT	UNIT	—√+ ⑤ ③;) TOL	MOVE MOVE	UNDER	BATT	MULTI	DMS	1 DAY













The classic balance in the laboratory

Features

- · Compact size, practical for small spaces
- Percentage determination: makes it possible to store a given weight value (100 %) and to determine deviations from this target value
- · A Ring-shaped draught shield standard, only for models with weighing plate size A, weighing space Ø×H 90×40 mm
- · Protective working cover included with delivery

Technical data

- Backlit LCD display, digit height 15 mm
- · Dimensions weighing surface,
- A Ø 81 mm, plastic, with conductive lacquer
- Ø 105 mm, stainless steel
- W×D 130×130 mm, stainless steel
- D W×D 150×170 mm, stainless steel, see larger picture
- Overall dimensions W×D×H 165×230×80 mm
- · Optional battery operation, 9 V block not included in scope of delivery, operating time up to 20 h, AUTO-OFF function to preserve the battery
- Net weight approx. 0,95 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, for models with weighing plate size
- A KERN 440-210-002S05, € 44,-
- B KERN 440-330-002S05, € 44,-
- C KERN 440-450-002S05, € 44,-
- KERN 440-530-002S05, € 44,-
- · Internal rechargeable battery pack, operating time up to 20 h without backlight, charging time approx. 10 h, KERN FCB-A01, € 54,-
- For models with weighing plate size **B**-**D**: Hook for underfloor weighing, KERN 440-A01, € 27,-
- Individual header data: the free software SHM-01 can be used to print 4 header lines on the printout when using printers 911-013, YKN-01, YKB-01N and YKE-01
- · Further details, plenty of further accessories and suitable printers see Accessories











































Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Price excl. of VAT	Options DAkkS Calibr. Co	
	[Max]	[d]				ex works	DAKKS Callel: Co	citilloate
KERN	g	g	g	g		€	KERN	€
440-21A	60	0,001	0,001	± 0,003	А	380,-	963-127	98,-
440-33N	200	0,01	0,01	± 0,02	В	300,-	963-127	98,-
440-35N	400	0,01	0,01	± 0,03	В	350,-	963-127	98,-
440-35A	600	0,01	0,01	± 0,03	В	380,-	963-127	98,-
440-43N	400	0,1	0,1	± 0,2	C	220,-	963-127	98,-
440-45N	1000	0,1	0,1	± 0,2	C	250,-	963-127	98,-
440-47N	2000	0,1	0,1	± 0,2	C	300,-	963-127	98,-
440-49N	4000	0,1	0,1	± 0,3	D	350,-	963-127	98,-
440-49A	6000	0,1	0,1	± 0,3	D	380,-	963-128	118,-
440-51N	4000	1	1	± 2	D	170,-	963-127	98,-
440-53N	6000	1	1	+ 2	n	230 -	963-128	118 -

■ ONLY WHILE STOCKS LAST













Technical data

- Large LCD display, digit height 21 mm
- · Dimensions weighing surface, stainless steel
 - A Ø 80 mm
 - B Ø 120 mm
 - **©** Ø 135 mm, see larger picture
- **D** W×D 155×145 mm
- · Permissible ambient temperature KERN EWJ: 15 °C/35 °C KERN EWJ-M: 15 °C/30 °C

Accessories

- · Protective working cover, scope of delivery 5 items, KERN EWJ-A04S05, € 44,-
- · Internal rechargeable battery pack, operating time up to 57 h without backlight, charging time approx. 6,5 h, KERN EWJ-A06, € 45,-
- · KERN EWJ/-H/-M: Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs, for more details see internet, scope of supplies: 1 CD, 1 license, KERN SCD-4.0, € 210,-
- · Further details, plenty of further accessories and suitable printers see Accessories



High-quality precision balance with automatic internal adjustment, verification optional

Features

- NEW: EWJ 600-3/EWJ 6000-2: The measuring system's exceptionally high resolution of 600.000 points ensures the highest level of accuracy with large weighing ranges
- · NEW: Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading
- · Standardised, convenient KERN concept of operation: All primary functions have their own key on the keypad
- · Automatic internal adjustment, time-controlled every 2 h, guarantees high degree of accuracy and makes the balance independent of its location
- · Capacity display: A bargraph display lights up to show how much of the weighing range is still available

- · KERN EWJ/-H/-M: USB data interface for transferring weighing data to the PC, printer etc.
- · Small draught shield as standard for models with weighing plate size A, B, removable, Weighing space W×D×H 134×128×80 mm
- II KERN EWJ 300-3H/EWJ 600-3: Large glass draught shield with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 155×175×217 mm
- · Protective working cover included with delivery

STANDARD







































Model	Weighing capacity [Max]	Read- ability [d]	Verification value [e]	Minimal load [Min]	Linearity	Overall dimensions W×D×H	Weighing plate	Price excl. of VAT ex works	Verifica	ition	Options DAkkS Calibr. C	ertificate
KERN	g	g	g	g	g	mm		€	KERN	€	KERN	€
EWJ 300-3H	300	0,001	-	-	± 0,005	220×340×321	Α	620,-	-	-	963-127	98,-
EWJ 300-3	300	0,001	-	-	± 0,005	220×340×90	A	600,-	-	-	963-127	98,-
EWJ 600-3	600	0,001	-	-	± 0,005	220×340×321	В	700,-	-	-	963-103	162,-
EWJ 3000-2	3000	0,01	-	-	± 0,05	220×340×105	C	550,-	-	-	963-127	98,-
FWI 6000-2	6000	0.01	-	_	+ 0.05	220×340×105	D	650 -	_	_	963-104	184

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

EWJ 600-2M	600	0,01	0,1	0,5	± 0,03	220×340×90	В	510,-	965-216	85,-	963-127	98,-
EWJ 6000-1M	6000	0,1	1	5	± 0,3	220×340×105	D	490,-	965-217	99,-	963-128	118,-
					Variants	without data inte	rfaces					
EWJ 600-2SM	600	0,01	0,1	0,5	± 0,03	220×340×90	В	500,-	965-216	85,-	963-127	98,-
EWJ 6000-1SM	6000	0,1	1	5	± 0,3	220×340×105	D	480,-	965-217	99,-	963-128	118,-



Precision balance with alibi memory and optional verification







Internal adjustment using the rotary control on the side guarantees a high degree of accuracy and means it can be used in any location

Features

- · With alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further
- The balance can be adjusted in battery operation without the need for mains power
- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- Menu with a large number of settings which can be adapted to your requirements. For example, you can specify button tones, assign a button with different functions for rapid access and adapt the print protocol as necessary
- Menu block prevents access by unauthorised users
- · Ideal for connection to laboratory information systems (LIMS)
- · GLP/ISO record keeping of weighing data, balance adjustment, etc. with date, time and identification number
- Industry 4.0: KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay
- · Data query and remote control of the balance using a computer or CRM/ERP systems using the KERN Communication Protocol
- · For further information on KUP and KCP see page 20/21
- · Hook for underfloor weighing included with the delivery
- · Protective working cover included with delivery

Technical data

- · Backlit LCD display, digit height 21 mm
- · Dimensions weighing surface, stainless steel
- A W×D 130×130 mm
- B W×D 150×170 mm • Overall dimensions W×D×H 163×245×80 mm
- · Battery operation, 4×1.5 V AA standard, operating time up to 20 h
- Permissible ambient temperature 15 °C/35 °C

Accessories

- Protective working cover, scope of delivery: 5 items, KERN YBA-A12S05, € 44,-
- · Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, € 35,-
- · External universal mains adapter, with universal input and optional input socket adapters for EU, CH, GB, US, KERN YKA-24, € 43,-
- · External data interface RS-232, interface cable included, KERN KUP-01, € 60,-
- · External data interface USB, interface cable included, KERN KUP-03, € 75,-
- · External data interface Ethernet, KERN KUP-04, € 115,-
- · External data interface WiFi, interface cable included, KERN KUP-05, € 75,-
- Bluetooth interface adapter, KERN KUP-06, € 99,-
- · Extension box for connecting up to three interfaces in parallel, KERN KUP-13, € 75,-
- · Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs, for more details see internet, scope of supplies: 1 CD, 1 license, KERN SCD-4.0, € 210,-
- · Further details, plenty of further accessories and suitable printers see Accessories

The main scope of applications is:

- Laboratories
- Chemists
- lewellers
- · Pharmaceutical industry









































STANDARD



























FACTORY

Model	Weighing	Read-	Verification	Minimal	Linearity	Weighing	Net	Price			Options	
	capacity	ability	value	load		plate	weight	excl. of VAT	Verifica	ition	DAkkS Calibr. C	Certificate
	[Max]	[d]	[e]	[Min]				ex works	MI		DAkkS	
KERN	g	g	g	g	g		kg	€	KERN	€	KERN	€
PCJ 600-2M	600	0,01	0,1	0,5	± 0,03	А	2,0	430,-	965-216	85,-	963-127	98,-
PCI 6000-1M	6000	0.1	1	5	± 0.3	В	2.8	440	on real	uest	963-128	118

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.













· Protective working cover included with delivery

Technical data

- · Large backlit LCD display, Digit height 21 mm
- · Dimensions weighing surface, stainless steel
 - A Ø 106 mm
 - B Ø 150 mm
 - © W×D 160×200 mm, see larger picture
- Overall dimensions W×D×H 180×310×85 mm
- Net weight A, B approx. 2,4 kg C approx. 2,8 kg
- Permissible ambient temperature -10 °C/40 °C

All-rounder, e.g. as precision balance in the laboratory or in harsh industrial applications, ideal for the diverse possibilities of Industry 4.0 applications

Features

- Thanks to the many typical laboratory functions, such as, for example, recipe function, percentage determination, combined with the high level of precision, the KERN 572 is a reliable partner for day-to-day work in the laboratory
- The robust version, typical industrial functions, such as piece-counting, vibrationfree weighing and the large weighing ranges also make these balances ideal for all industrial applications, where a high level of precision is required
- · KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay
- · KERN Communication Protocol (KCP): The KCP permits searching and remote control of the ba-

lance using external control devices or computers

- · For further information on KUP and KCP see page 20/21
- · Standardised, simplified concept of operation
- · Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- The robust aluminium diecast housing maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- · A Ring-shaped draught shield standard, only for models with weighing plate size A, weighing space Ø×H 157×43 mm
- · Level indicator to level the balance precisely
- · Underfloor weighing: load support on the underside of the balance for models. Loop for underfloor weighing, standard for models with weighing plate size A

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN 572-A02S05, € 44,-
- · Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, € 35,-
- · External data interface RS-232, interface cable included, KERN KUP-01, € 60,-
- · External data interface USB, interface cable included, KERN KUP-03, € 75,-
- · Interface adapter Ethernet, KERN KUP-04, € 115,-
- Interface adapter WiFi, KERN KUP-05, € 75,-
- · Bluetooth interface adapter, KERN KUP-06, € 99,-
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13, € 75,-
- B, C Hook for underfloor weighing, KERN 572-A03, € 25,-
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 150×140×130 mm, for models with weighing plate size A, KERN 572-A05, € 250,-





























































Model	Weighing	Readability	Reproducibility	Linearity	Resolution	Weighing	Price	Options	
	capacity	r.a				plate	excl. of VAT	DAkkS Calibr. C	ertificate
	[Max]	[d]					ex works	DAkkS	
KERN	g	g	g	g	Points		€	KERN	€
572-30	240	0,001	0,001	± 0,003	240.000	А	750,-	963-127	98,-
572-31	300	0,001	0,002	± 0,005	300.000	А	765,-	963-127	98,-
572-32	420	0,001	0,002	± 0,005	420.000	А	775,-	963-127	98,-
572-33	1600	0,01	0,01	± 0,03	160.000	В	735,-	963-127	98,-
572-35	2400	0,01	0,01	± 0,03	240.000	В	750,-	963-127	98,-
572-37	3000	0,01	0,02	± 0,05	300.000	В	765,-	963-127	98,-
572-39	4200	0,01	0,02	± 0,05	420.000	В	775,-	963-127	98,-
572-45	12000	0,05	0,05	± 0,15	240.000	С	750,-	963-128	118,-
572-55	20000	0,05	0,1	± 0,25	400.000	C	775,-	963-128	118,-
572-43	10000	0,1	0,1	± 0,3	100.000	С	730,-	963-128	118,-
572-49	16000	0,1	0,1	± 0,3	160.000	C	735,-	963-128	118,-
572-57	24000	0.1	0,1	± 0.3	240.000	C	760	963-128	118











· Protective working cover included with delivery

Technical data

- · Backlit LCD graphic display, digit height 15 mm
- · Dimensions weighing surface, stainless steel **A** Ø 110 mm **B** Ø 160 mm **C** W×D 200×175 mm
- Permissible ambient temperature 15 °C/35 °C

Accessories

- · Protective working cover, scope of delivery 5 items, KERN PLJ-A01S05, € 44,-
- Hook for underfloor weighing, KERN PLJ-A02, € 32,-
- · Set for density determination of liquids and solids for models with [d] = 0,001 g, KERN ALT-A02, € 750,-
- · Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, € 10,-
- · Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ), for details see page 230



High-quality precision scale with comfortable graphic display and enormous weighing range

Features

- I Convenient recipe-weighing: with the recipe database, up to 99 recipes can be stored, each with up to 20 recipe ingredients with name and target value
- · Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display
- Dosage aid: High stability mode and other filter settings can be selected
- · Rapid and efficient operation thanks to the graphics display
- · Simple, clear user interface on the display in the following languages: DE, EN, FR, IT, ES, PT
- · KERN PLJ: Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for applications which require verification, such as gold and jewellery purchasing
- PLJ 2000-3A: High-quality milligram balance with enormous weighing range up to 2100 g ideal for large samples or heavy tare containers. Large glass draught shield for easy access to the items being weighed. Weighing space W×D×H 160×170×225 mm
- · Ring-shaped draught shield standard, only for models with weighing plate size A, weighing space Ø×H 150×60 mm





































Model	Weighing	Read-	Verification	Minimal	Linearity	Overall	Weighing	Price			Options	
	capacity	ability	value	load		dimensions	plate	excl. of VAT	Verification		DAkkS Calibr. Certificate	
	[Max]	[d]	[e]	[Min]		$W \times D \times H$		ex works	MI		DAkkS	
KERN	(ERN g g		g	g	g	mm		€	KERN	€	KERN	€
PLS 420-3F	420	0,001	_	-	± 0,004	210×340×160	Α	880,-	-	-	963-127	98,-
PLS 720-3A	720	0,001	-	-	± 0,002	210×340×160	Α	1150,-	-	_	963-103	162,-
PLS 1200-3A	1200	0,001	-	-	± 0,003	210×340×160	Α	1180,-	-	-	963-103	162,-
PLS 4200-2F	4200	0,01	-	-	± 0,04	210×340×120	В	830,-	-	-	963-127	98,-
PLS 6200-2A	6200	0,01	-	-	± 0,03	210×340×120	В	1160,-	-	-	963-104	184,-
PLS 8000-2A	8200	0,01	-	-	± 0,04	210×340×120	В	1380,-	-	-	963-104	184,-
PLS 20000-1F	20000	0,1	_	-	± 0,4	210×340×120	C	760,-	-	-	963-128	118,-
PLJ 420-3F	420	0,001	_		± 0,003	210×340×160	Α	960,-	_	_	963-127	98,-
PLJ 720-3A	720	0,001	-	-	± 0,002	210×340×160	Α	1300,-	-	-	963-103	162,-
PLJ 1200-3A	1200	0,001	-	-	± 0,003	210×340×160	Α	1380,-	-	-	963-103	162,-
PLJ 2000-3A	2100	0,001	-	-	± 0,004	210×340×330	Α	1900,-	-	-	963-103	162,-
PLJ 4200-2F	4200	0,01	-	-	± 0,04	210×340×120	В	950,-	-	_	963-127	98,-
PLI 6200-2A	6200	0.01	_	_	+ 0.05	210×340×120	В	1280	_	_	963-104	184

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification

	Tito illitiai voi	111001101110	not podeibi	o artor ao		oo maana ana aan a		or tire recation	. 01 400 101 11	o mineral v	0111104110111	
PLJ 720-3AM	720	0,001	0,01	0,02	± 0,002	210×340×160	Α	1350,-	965-216	85,-	963-103	162,-
PLJ 6200-2AM	6200	0,01	0,1	0,5	± 0,05	210×340×120	В	1330,-	965-217	99,-	963-104	184,-









The new standard in the laboratory with robust tuning fork weighing system, also with optional verification

- · KERN PNS: Adjusting program CAL for quick setting of the balance accuracy using an external test weight at an additional price, see Test Weights
- · KERN PNJ: Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for applications which require verification, such as gold and jewellery purchasing
- · High-quality tuning fork weighing system for rapid display of the weight, very precise dispensing and a high level of mechanical robustness
- · Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- · Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- · Compact size, practical for small spaces
- · Large, shock proof weighing plate made of stainless steel

- A Large glass draught shield with 3 sliding doors for easy access to the items being weighed: for models with weighing plate size A, Weighing space W×D×H 172×171×160 mm
- · Protective working cover included with delivery

Technical data

- · Large LCD display, digit height 16,5 mm
- · Dimensions weighing surface, stainless steel
 - A Ø 140 mm
 - B W×D 190×190 mm
- · Overall dimensions W×D×H
 - A 196×293×266 mm
- B 196×293×89 mm
- Permissible ambient temperature 5 °C/40 °C

- · Protective working cover, scope of delivery 5 items, KERN PNJ-A01S05, € 44,-
- 1 Gemstones plate, aluminium with practical spout, W×D×H 130×80×30 mm, KERN AEJ-A05, € 43,-
- Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, € 10,-
- · Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ), for details see page 230
- · Further details, plenty of further accessories and suitable printers see Accessories

STANDARD



































Model	Weighing capacity [Max]	Readability [d]	ty Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Net weight kg	t Price excl. of VAT ex works	Verification		Options DAkkS Calibr. Certificate DAkkS	
KERN	g	g	g	g	g			€	KERN	€	KERN	€
PNS 600-3	620	0,001	-	-	± 0,004	Α	2,2	820,-	-	-	963-103	162,-
PNS 3000-2	3200	0,01	-	-	± 0,02	В	2,8	740,-	-	-	963-127	98,-
PNS 12000-1	12000	0.1	_	_	± 0.2	В	2.8	720	_	_	963-128	118

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

PNJ 600-3M	620	0,001	0,01	0,02	± 0,004	Α	4,2	950,-	965-216 85,-	963-103	162,-
PNJ 3000-2M	3200	0,01	0,1	0,5	± 0,02	В	3,6	890,-	965-216 85,-	963-127	98,-
PNJ 12000-1M	12000	0,1	1	5	± 0,2	В	3,8	870,-	965-217 99,-	963-128	118,-











Accessories

- · Protective working cover, scope of delivery: 5 items, for models with weighing plate size
- A, B KERN EG-A05S05, € 44,-
- © KERN EG-A09S05, € 44,-
- · Internal rechargeable battery pack, operating time up to 12 h with backlight, charging time approx. 12 h, for models with weighing plate size
- A, B KERN EG-A04, € 130,-
- C KERN EG-A06, € 130,-
- 2 Large glass draught shield with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 150×140×130 mm, KERN EG-A03, € 260,-
- · Loop for underfloor weighing, for models with weighing plate size
- A, B KERN EG-A07, € 46,-
- C KERN EG-A08, € 46,-
- · Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, € 10,-
- · Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ), for details see page 230
- · Further details, plenty of further accessories and suitable printers see Accessories



The classic balance with robust tuning fork measuring system

Features

- II KERN EG: Internal adjustment in the case of a change in temperature and time-controlled at defined intervals, guarantees high degree of accuracy and makes the balance independent of its location of use
- · Stable temperature behaviour
- · Short stabilisation time
- · Shock proof construction
- · High corner load performance
- · Capacity display: A bargraph display lights up to show how much of the weighing range is still available
- · Totalising of pieces when counting
- · Draught shield standard for models with weighing plate size A, weighing space W×D×H 158×130×78 mm

Technical data

- · Large LCD display, digit height 17 mm
- · Dimensions weighing surface, stainless steel

· Protective working cover included with delivery

- A Ø 118 mm, see larger picture
- **B** W×D 170×140 mm **G** W×D 180×160 mm
- · Overall dimensions W×D×H
- **A** 185×235×165 mm **B**, **C** 180×235×75 mm
- Net weight
- A ca. 2,0 kg, B ca. 1,6 kg, C ca. 4,0 kg
- Permissible ambient temperature 10 °C/30 °C

STANDARD



































Model	Weighing Readab capacity [Max] [d]		Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Net weight	Price excl. of VAT ex works	Verifica	ation	Options DAkkS Calibr. C	ertificate
KERN	g	g	g	g	g		kg	€	M KERN	€	DAkkS KERN	€
EW 220-3NM	220	0,001	_	-	± 0,002	А	1,4	840,-	-	-	963-127	98,-
EW 420-3NM	420	0,001	-	-	± 0,003	А	1,4	970,-	-	-	963-127	98,-
EW 620-3NM	620	0,001	-	-	± 0,003	А	1,4	1080,-	-	-	963-103	162,-
EW 820-2NM	820	0,01	_	-	± 0,01	В	1,6	760,-	-	-	963-127	98,-
EW 2200-2NM	2200	0,01	_	-	± 0,01	С	3,0	930,-	-	-	963-127	98,-
EW 4200-2NM	4200	0,01	-	-	± 0,02	C	3,0	1030,-	-	-	963-127	98,-
EW 6200-2NM	6200	0,01	-	-	± 0,03	С	3,0	1120,-	-	-	963-104	184,-
EW 12000-1NM	12000	0.1	_	_	± 0.2	С	3.0	880	_	_	963-128	118

					,							
EG 220-3NM	220	0,001	0,01	0,02	± 0,002	Α	2,0	1060,-	965-216 🗓	85,-	963-127	98,-
EG 420-3NM	420	0,001	0,01	0,02	± 0,003	Α	1,8	1160,-	965-216 🗓	85,-	963-127	98,-
EG 620-3NM	620	0,001	0,01	0,1	± 0,004	Α	2,0	1300,-	965-201 🗓	150,-	963-103	162,-
EG 2200-2NM	2200	0,01	0,1	0,5	± 0,01	C	4,0	1110,-	965-216 🗓	85,-	963-127	98,-
FG 4200-2NM	4200	0.01	0.1	0.5	+ 0.02	C	4.0	1220 -	065 216	85 -	963-127	98 -













High-resolution precision balance made of stainless steel with IP protection

Features

- High-quality tuning fork weighing system for rapid display of the weight, very precise dispensing and a high level of mechanical robustness
- Thanks to the stainless steel design of the housing and platform with smooth surface, the scale is rust-free and easy to clean
- IP65 dust and spray protection (in accordance with EN 60529)
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard
- RS 232 data interface for connection to a printer as standard

Technical data

- Large LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel
 Ø 140 mm
- **B** W×D 190×190 mm, see larger picture
- Overall dimensions W×D×H 320×205×90 mm
- Net weight approx. 3,0 kg
- Permissible ambient temperature 10 °C/30 °C

Accessories

- Loop for underfloor weighing, KERN EG-A07, € 46,-
- Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs, for more details see internet, scope of supplies: 1 CD, 1 license, KERN SCD-4.0, € 210, Battery insert, enables mobile weighing, 4×1.5 V AA batteries (not included in delivery),
- III Interface cable RS-232 to connect an external device, IP65 dust and spray protection (in accordance with EN 60529), KERN PWS-A02, € 390,-

Operating time 200 h, KERN PWS-A01, € 110,-

 Further details, plenty of further accessories and suitable printers see Accessories

STANDARD



























Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	excl. of VAT	Option DAkkS Calibr. C	
KERN	[Max] g	[d] g	g	g		ex works €	DAkkS KERN	€
PWS 800-2	820	0,01	0,01	± 0,01	А	1120,-	963-127	98,-
PWS 3000-1	3200	0,1	0,1	± 0,1	В	1020,-	963-127	98,-
PWS 8000-1	8200	0,1	0,1	± 0,1	В	1150,-	963-128	118,-









- 3 Single-cell advanced technology:
- · Fully automatic manufactured weighing cell from one piece of material
- · Stable temperature behaviour
- · Short stabilisation time: steady weight values within approx. 3 s under laboratory conditions
- · Shock proof construction
- · High corner load performance



Multifunctional laboratory balance with single-cell weighing system, verification optional

Features

- · KERN PBS: Adjusting program CAL for quick setting of the balance accuracy using an external test weight at an additional price, see Test Weights
- · KERN PBJ: Internal adjustment in the case of a change in temperature and time-controlled at defined intervals, guarantees high degree of accuracy and makes the balance independent of its location of use
- · Metal housing: robust and sturdy
- Dosage aid: High stability mode and other filter settings can be selected
- · Weighing with tolerance range (checkweighing): a visual signal helps with portioning, dispensing or grading
- · Summation of weight values
- · Identification number: 4 digits, printed on calibration protocol freely programmable
- · Automatic data output to the PC/printer each time the balance is steady

- 11 Draught shield standard for models with weighing plate size A, weighing space W×D×H 180×193×87 mm
- · Protective working cover included with delivery

Technical data

- · Large backlit LCD display, Digit height 14 mm
- · Dimensions weighing surface, stainless steel
 - A W×D 112×112 mm
 - **B** W×D 180×190 mm, see larger picture
- · Overall dimensions (without draught shield) W×D×H: 210×330×70 mm
- · Net weight approx. 4,2 kg
- Permissible ambient temperature 10 °C/30 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, for models with weighing plate size
- A KERN PBS-A01S05, € 44,-
- B KERN PBS-A02S05, € 44,-
- 2 Set for density determination of liquids and solids with density ≥ 1, for models with weighing plate size
- A KERN PBS-A04, € 1950,-
- B KERN PBS-A03, € 1950,-
- · Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, € 10,-
- · Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ)
- · Further details, plenty of further accessories and suitable printers see Accessories







































						•						
Model	Weighing	Readability	Verification	Minimal	Linearity	Weighing	Net	Price			Options	
	capacity		value	load		plate	weight	excl. of VAT	Verifica	tion	DAkkS Calibr. C	ertificate
	[Max]	[d]	[e]	[Min]				ex works	M		DAkkS	
KERN	g	g	g	g	g		kg	€	KERN	€	KERN	€
PBS 620-3M	620	0,001	-	-	± 0,002	Α	3,2	1750,-	-	-	963-103	162,-
PBS 4200-2M	4200	0,01	-	-	± 0,02	В	3,2	1540,-	-	-	963-127	98,-
PBS 6200-2M	6200	0,01	-	-	± 0,02	В	3,4	1850,-	-	-	963-104	184,-

PBJ 620-3M	620	0,001	0,01	0,1	$\pm 0,002$	А	4,2	2050,-	965-201 🗓	150,-	963-103	162,-
PBJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	В	5,0	1900,-	965-216 🗓	85,-	963-127	98,-
PBJ 6200-2M	6200	0,01	0,1	1	± 0,02	В	5,0	2300,-	965-202 🗓	150,-	963-104	184,-
PBJ 8200-1M	8200	0,1	1	5	± 0,2	В	5,0	1890,-	965-217 🗓	99,-	963-128	118,-











Robust laboratory and industrial precision scale for heavy items, verification optional

Features

- · KERN PEJ: Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use
- · KERN PES: Adjusting program CAL for quick setting of the balance accuracy using an external test weight at an additional price, see Test Weights
- · Metal housing: robust and sturdy
- · Weighing with tolerance range (checkweighing): Input of two upper and two lower limit values through four arrow keys. An audible and visual signal assists with the portioning, dispensing or grading
- · Draught shield standard for models with weighing plate size A, weighing space W×D×H 170×150×100 mm
- A, B Underfloor weighing: load support with hook on the underside of the balance for models

- A Hook included with the delivery
- **B** Hook not included with the delivery
- A, B: Protective working cover included with delivery

Technical data

- · Fluorescent display, bright with high contrast, digit height 14 mm
- · Dimensions weighing surface, stainless steel
- A W×D 140×120 mm
- B W×D 200×200 mm, see larger picture
- C W×D 250×220 mm
- Overall dimensions (without draught shield) W×D×H
- A. B 220×333×93 mm
- C 260×330×113 mm
- Permissible ambient temperature 10 °C/30 °C

Accessories

- A, B: Protective working cover, scope of delivery: 5 items, KERN PES-A04S05, € 44,-
- KERN PES: Internal rechargeable battery pack, operating time up to 6 h with backlight, charging time approx. 15 h, KERN PES-A01, € 690,-
- · Loop for underfloor weighing, for models with weighing plate size **B**, KERN PES-A03, € 43,-
- · Relay output to connect relays, signal lamps, valves etc., 5 outputs for weighing in 3 tolerance ranges, must be ordered at purchase, KERN PES-A02, € 550,-
- · Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, € 10,-
- · Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ)
- · Further details, plenty of further accessories and suitable printers see Accessories

STANDARD















































Model	Weighing Readability Vericapacity (Max] [d]		value	Minimal load [Min]	Linearity	Weighing plate	Net weight	Price excl. of VAT	Verifica	ition	Options DAkkS Calibr. C	ertificate
KERN	g	g	lel g	g	g		kg	ex works €	MIII KERN	€	DAkkS KERN	€
PES 620-3M	620	0,001	_	-	± 0,003	А	3,6	1500,-	-	-	963-103	162,-
PES 2200-2M	2200	0,01	_	-	± 0,02	В	4,4	1050,-	-	-	963-127	98,-
PES 4200-2M	4200	0,01	-	-	± 0,02	В	4,0	1250,-	-	-	963-127	98,-
PES 6200-2M	6200	0,01	-	-	± 0,03	В	4,4	1550,-	-	-	963-104	184,-
PES 15000-1M	15000	0,1	-	-	± 0,2	В	4,4	1450,-	-	-	963-128	118,-
DEC 21000 1M	21000	Λ 1			± 0.4	C	10.0	2450			062 120	110

	THE IIIIIII VEIT	iloation is no	ot possible a	itter deliver	y. I icase iiiioii	ili tilo lui	i dddi coo c	of the location	TOT USC TOT L	ic illitial vc	illioation.	
PEJ 620-3M	620	0,001	0,01	0,1	± 0,003	Α	4,4	1800,-	965-201	965,-	963-103	162,-
PEJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	В	6,0	1550,-	965-216	85,-	963-127	98,-
PEI 2200-2M	2200	0.01	0.1	0.5	± 0.02	В	6.0	1350	965-216	85	963-127	98











High-capacity precision balance with password-protected user administration, also with optional verification

Features

- · KERN FEJ: Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use
- · KERN FES: Adjusting program CAL for quick setting of the balance accuracy using an external test weight at an additional price, see Test Weights
- · Stainless steel display device with IP65 protection, hygienic and easy to clean
- · Metal housing: robust and sturdy
- · In order to meet requirements in the pharmaceutical industry, the balance is fitted with a user administration system, which enables unique assignment of users and protects against unauthorised access
- · Intuitive concept of operation through info line on the display
- · Freely-assignable function keys enable individual adjustment of the balance
- · IP65 dust and spray protection (in accordance with EN 60529)

- · U.S. FDA 21 Part 11: assists you in data integrity in accordance with U.S. FDA 21 Part 11 (for example weighing result, sample ID, user name, scales ID, ...)
- · Protective working cover included with delivery

Technical data

- · Large backlit LCD display, digit height 16,5 mm
- · Dimensions weighing surface, stainless steel, W×D 350×400 mm
- · Dimensions of display device W×D×H 290×180×80 mm
- Overall dimensions W×D×H 350×520×170 mm
- · Net weight approx. 19 kg
- Permissible ambient temperature: 5 °C/35 °C

Accessories

- · Protective working cover, scope of delivery 5 items, KERN FEJ-A02S05, € 44,-
- · Internal rechargeable battery pack, operating time up to 10 h without backlight, charging time approx. 12 h, KERN FEJ-A01, € 760,-
- · Relay output with 5 outputs for weighing in 3 tolerance ranges, KERN FEJ-A07, € 585,-
- Stand to elevate display device, height of stand approx. 700 mm, KERN FEJ-A05, € 240,-
- · Interface cable RS-232 to connect an external device, IP65 dust and spray protection (in accordance with EN 60529), KERN PWS-A02, € 390,-
- Loop for underfloor weighing, KERN FEJ-A06, € 230,-
- · Further details, plenty of further accessories and suitable printers see Accessories

STANDARD







































Model	Weighing	Readability	Verification	Minimal load	Linearity	Net	Price			Options	
ZEDN	capacity [Max]	[d]	value [e]	[Min]		weight	excl. of VAT ex works	Verifica	ation	DAkkS Calibr. C	ertificate
KERN	kg	g	g	g	g	kg	€	MIII KERN	€	DAkkS KERN	€
FES 17K-4	17	0,1	-	-	± 0,3	18	2850,-	-	-	963-128	118,-
FES 33K-4	33	0,1	-	-	± 0,3	18	3000,-	-	-	963-128	118,-
FES 62K-4D	6.2 62	0.1 1	_	_	+ 0.3 3	18	3300	_	_	963-129	146

	The initial verific	ation is not po	asible after t	activety. I lea	ise illioilli tile iuli	addicas	of the location	i oi use ioi ti	ic illitial ve	illication.	
FEJ 17K-4M	17	0,1	1	5	± 0,3	19	3080,-	965-217	99,-	963-128	118,-
FEJ 33K-4M	33	0,1	1	5	± 0,3	19	3340,-	965-217	99,-	963-128	118,-
FEJ 62K-4DM	6,2 62	0,1 1	1	5	± 0,3 3	19	3650,-	965-218	135,-	963-129	146,-



ANALYTICAL BALANCES

Quick-Finder Analytical Balances

Readability	Weighing capacity	Model	Price excl. of VAT	Page	-	M		Ľ		GLP	GLP	
[d]	[Max]		ex works		DAYS		CAL INT	CAL EXT	RS 232	INTERN	PRINTER	RECIPE
mg	g	KERN	€		For	an ex	planation	n on the	pictos.	see the	front f	lap
0,01 0,1	42 120	ABT 120-5DNM	2550,-	48	1		•		•	•		•
0,01 0,1	52 120	ABP 100-5DM	3200,-	50	1		•		•	•		<u> </u>
0,01 0,1	52 120	ABP 100-5DAM	6800,-	52	<u>'</u>		•		•	<u> </u>		<u> </u>
0,01 0,1	82 220	ALJ 200-5DA	2250,-	44	1		•		•	•		•
0,01 0,1	82 220	ABT 220-5DNM	2650,-	48	1		•		•	<u> </u>		•
0,01 0,1	102 220	ABP 200-5DM	3400	50			•		•	•		•
0,01 0,1	102 220	ABP 200-5DAM	9000,-	52	1		•		•	•		•
0,01	101	ABT 100-5NM	2500,-	48	1		•		•	<u> </u>		•
0,01	135	ABP 100-5M	4200,-	50	1		•		•	•		•
0,01	135	ABP 100-5M	9200,-	52	- 		•		•	<u> </u>		<u> </u>
0,01	210	ALJ 210-5A	3300,-	44	1		•		•	•		•
0,01	220	ABP 200-5AM	11200,-	52			•		•	<u> </u>		<u> </u>
0,01	220	ABP 200-5M	6000,-	50	1	0	•		•	•		•
0,1	82	ACS 80-4	1230,-	46	'			•	•		•	•
0,1	82	ACJ 80-4M	1370,-	46	1	0	•		•		•	•
0,1	120	ACS 100-4	1330,-	46	1			•	•		<u> </u>	•
0,1	120	ACJ 100-4M	1430,-	46	1		•		•		•	•
0,1	120	ABT 120-4NM	1900,-	48	1		•		•	•		•
0,1	120	ABP 100-4M	2200,-	50	1		•		•	•		<u> </u>
0,1	120	ADB 600-C3 ⊕	760,-	43	1			•	•		•	
0,1	120	ADB 100-4	770,-	43				<u> </u>	•		•	
0,1	120	ADJ 600-C3 ♥	900,-	43	1		•		•		<u> </u>	
0,1	120	ADJ 100-63 \$	910,-	43			•		•		<u> </u>	
0,1	160	ALS 160-4A	1330,-	44	1			•	•	•		•
0,1	160	ALJ 160-4A	1420,-	44	- 		•		•	•		$\overset{{}_{\bullet}}{-}$
0,1	160	ALJ 160-4AM	1460,-	44	1	0	•		•	•		•
0,1	220	ADJ 200-4AW	990,-	43	<u></u> -		•		$\overset{{}_{\bullet}}{\bullet}$	<u> </u>	•	
0,1	220	ACS 200-4	1430,-	46	1			•	•		•	•
0,1	220	ACJ 200-4M	1530,-	46			•		•		<u> </u>	•
0,1	220	ABT 220-4NM	2300,-	48	1		•		•	•		•
0,1	220	ABP 200-4M	2700,-	50	- i	0	•		•	•		•
0,1	220	ABP 200-4AM	5900	52	1		•		•	•		•
0,1	220	ADB 200-4	850,-	43	1			•	•		•	
0,1	250	ALS 250-4A	1380,-	44	1			•	•	•		•
0,1	250	ALJ 250-4A	1450,-	44	1		•		•	•		•
0,1	250	ALJ 250-4AM	1490,-	44	1		•		•	•		•
0,1	310	ALJ 310-4A	1500,-	44	1		•		•	•		•
0,1	320	ACS 300-4	1630,-	46	'			•	•		•	•
0,1	320	ACJ 300-4M	1730,-	46	1		•		•		•	•
0,1	320	ABT 320-4NM	2600,-	48	'		•		•	•		•
0,1	320	ABP 300-4M	3000,-	50	1	0	•		•	•		•
0,1	320	ABP 300-4M	6400,-	52	<u></u> - † - 1		•		•	•		<u> </u>
0,1	510	ALJ 500-4A	2250,-	44	1 _		•		•	•		<u> </u>
⊕ = Carat balance	310	ALJ JUU-TA	2230,-		ard ○ O	ntion						













The price leader in analytical balances, with internal or external adjustment

Features

- · KERN ADJ: Automatic internal adjustment in the case of a change in temperature ≥ 2 °C or timecontrolled every 3 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- · KERN ADB: Adjusting program CAL for quick setting of the balance accuracy using an external test weight at an additional price, see Test Weights
- · Glass draught shield with 3 sliding doors for easy access to the items being weighed. standard
- 1 ADB 600-C3/ADJ 600-C3: Compact, spacesaving carat balances with a readout of 0.001 ct and a weighing range of 600 ct. The high level of accuracy saves hard cash wherever you are weighing valuable precious stones
- · Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- · Simple and convenient 6-key operation

Technical data

- · Large backlit LCD display, Digit height 16 mm
- · Dimensions weighing surface, stainless steel, Ø 90 mm
- · Weighing space W×D×H KERN ADB-C/ADJ-C: 170×160×110 mm KERN ADB/ADJ: 170×160×205 mm
- Permissible ambient temperature 10 °C/30 °C

Accessories

- 2 Set for density determination of liquids and solids with density $\leq/\geq 1$, the density is indicated directly on the display, KERN YDB-03, € 380,-
- Ioniser to neutralise electrostatic charge, KERN YBI-01A, € 1000,-
- 4 Gemstones plate, aluminium with practical spout, W×D×H 130×80×30 mm, KERN AEJ-A05, € 43,-
- 5 Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, € 1030,-
- Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, € 10,-
- · Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ)
- · Further details, plenty of further accessories and suitable printers see Accessories























DARKS

Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Overall dimensions W×D×H	Net weight	Price excl. of VAT ex works	Option: DAkkS Calibr. C	
KERN	g	mg	mg	mg	mm	kg	€	KERN	€
ADB 100-4	120	0,1	0,2	± 0,4	230×310×330	4,4	770,-	963-101	191,-
ADB 200-4	220	0,1	0,2	± 0,4	230×310×330	4,4	850,-	963-101	191,-
ADB 600-C3 ⊕	600 ct	0,001 ct	0,002 ct	± 0,004 ct	230×310×210	3,8	760,-	963-101	191,-
ADJ 100-4	120	0,1	0,2	± 0,4	230×310×330	5,0	910,-	963-101	191,-
ADJ 200-4	220	0,1	0,2	± 0,4	230×310×330	5,0	990,-	963-101	191,-
ADJ 600-C3 ◆	600 ct	0,001 ct	0,002 ct	± 0,004 ct	230×310×210	4,6	900,-	963-101	191,-





KERN ALJ 200-5DA with optional ioniser ■, see accessories. High-precision semi-micro analytical balance. Thanks to its high level of precision, it is ideal for calibrating pipettes Note: To prevent evaporation we recommend economical capillary tubes (see standard 8655)

11:14:57

47 g

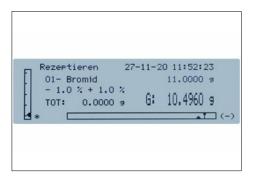
95 g

8 g

0,6 g

0,6 g

Analytical balances with a large weighing range, graphics display and user-friendly recipe weighing function – also as single-range semi-micro balance with unbelievably high resolution



Clear printout with date and time. In addition, the components of the mixture are numbered automatically and printed out with the name and weight

SUM

MiHo-Creme 1. Milch

Mandelöl

Honia

Bezoe-Öl

Weihrauch-Öl



GLP/ISO record keeping: professional, detailed GLP Protocol, so that the balance is completely compliant with the relevant standard requirements in accordance with ISO, GLP and GMP

Convenient recipe-weighing: with the recipe database, up to 99 recipes can be stored, each with up to 20 recipe ingredients with name and target value



Features

- · ALJ 210-5A: Semi-micro model with just one weighing range with unbelievably high resolution, ideal where heavy items need to be weighed with the most accurate readout across the entire weighing range. 11 Particularly advantageous: the ioniser KERN ALJ-A03 for neutralising electrostatic charge is already fitted as standard
- · Rapid and efficient operation thanks to the graphics display. Simple, clear user interface on the display in the following languages: DE, EN, FR, IT, ES, PT
- · KERN ALJ: Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use
- · KERN ALS: Adjusting program CAL for quick setting of the balance accuracy using an external test weight at an additional price, see Test Weights
- · Short stabilisation time: steady weight values within approx. 4 s (Models with [d] = 0,1 mg) 10 s; 6 s (Models with [d] = 0,01 | 0,1 mg) under laboratory conditions
- · Weighing with tolerance range (checkweighing): Input of an upper/lower limit value. A visual signal assists with portioning, dispensing or grading
- · Dosage aid: High stability mode and other filter settings can be selected



- · Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display
- · Ergonomically optimised keypad for left and righthanded users
- · Large glass draught shield with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 160×170×225 mm
- · Compact size, practical for small spaces
- · Protective working cover included with delivery

Technical data

- · Backlit LCD graphic display, digit height 15 mm
- · Dimensions weighing surface, stainless steel, Ø 80 mm
- Overall dimensions W×D×H 210×340×330 mm
- Net weight approx. 7 kg
- Permissible ambient temperature 5 °C/35 °C



Accessories

- Protective working cover, scope of delivery 5 items, KERN ALJ-A01S05, € 44,-
- Protective dust cover, KERN ABS-A08, € 32,-
- Evaporation trap, minimises faults through evaporation when using pipettes for small volumes of 10 µl to 10 ml, KERN ALJ-A02, € 720,-
- 2 Draught shield rear panel with integrated ioniser to neutralise electrostatic charge. Particularly convenient handling as you no longer need a separate device. Simply enable the ionizer fan at the push of a button.. Is fitted in place of the existing glass rear panel of the draught shield. Please order at the time you order your balance, the scope of delivery is the rear panel, ionizer, Universal plug-in power supply. Factory Option, KERN ALJ-A03, € 620,-
- 3 Set for density determination of liquids and solids with density $\leq/\geq 1$, the density is indicated directly on the display, KERN YDB-03, € 380,-
- · Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, € 1030,-
- Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ)
- · Further details, plenty of further accessories and suitable printers see Accessories

STANDARD



































Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Repro- ducibility	Linearity	Price excl. of VAT ex works	Verifica	ntion	Options DAkkS Calibr. C DAkkS	ertificate
KERN	g	mg	mg	mg	mg	mg	€	KERN	€	KERN	€
ALS 160-4A	160	0,1	_	-	0,1	± 0,3	1330,-	-	-	963-101	191,-
ALS 250-4A	250	0,1	_	-	0,1	± 0,3	1380,-	-	-	963-101	191,-
ALJ 210-5A	210	0,01	-	-	0,05	± 0,1	3300,-	-	-	963-101	191,-
ALJ 160-4A	160	0,1	-	-	0,1	± 0,3	1420,-	_	_	963-101	191,-
ALJ 250-4A	250	0,1	-	-	0,1	± 0,3	1450,-	-	-	963-101	191,-
ALJ 310-4A	310	0,1	_	-	0,1	± 0,3	1500,-	_	_	963-101	191,-
ALJ 500-4A	510	0,1	-	-	0,2	± 0,4	2250,-	-	-	963-101	191,-

Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range

ALJ 200-5DA 0,01 | 0,1 $0,04 \mid 0,1 \pm 0,1 \mid 0,2$ Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

	The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.										
ALJ 160-4AM	160	0,1	1	10	0,1	± 0,3	1460,-	965-201	150,-	963-101	191,-
ALJ 250-4AM	250	0,1	1	10	0,1	± 0,3	1490,-	965-201	150,-	963-101	191,-





USB data interfaces and RS-232 for transferring weighing data to the PC, tablet, printer or USB

The bestseller in analytical balances, with high-quality single-cell weighing system, verification optional

Features

- KERN ACJ: Automatic internal adjustment in the case of a change in temperature ≥ or timecontrolled every, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN ACS: Adjusting program CAL for quick setting of the balance accuracy using an external test weight at an additional price, see *Test Weights*
- Dosage aid: High stability mode and other filter settings can be selected
- Simple recipe weighing and documenting with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight
- Automatic data output to the PC/printer each time the balance is steady
- Identification number: 4 digits, printed on calibration protocol freely programmable
- Protective working cover included with delivery







Technical data

- Large LCD display, digit height 14 mm
- Dimensions weighing surface, stainless steel, Ø 91 mm
- Weighing space W×D×H 174×162×227 mm
- Overall dimensions W×D×H 213×333×338 mm
- · Net weight approx. 7 kg
- Permissible ambient temperature 10 °C/30 °C

Accessories

- · Protective working cover, scope of delivery 5 items, KERN ACS-A02S05, € 44,-
- Set for density determination of liquids and solids with density $\leq/\geq 1$, the density is indicated directly on the display, KERN YDB-03, € 380,-
- 2 Ioniser to neutralise electrostatic charge, KERN YBI-01A, € 1000,-
- 3 Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, € 1030,-
- · Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, € 10,-
- · Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ)
- · Further details, plenty of further accessories and suitable printers see Accessories



- 4 Single-cell advanced technology:
- Fully automatic manufactured weighing cell from one piece of material
- · Stable temperature behaviour
- · Short stabilisation time: steady weight values within approx. 3 s under laboratory conditions
- Shock proof construction
- · High corner load performance

STANDARD































Model	Weighing capacity	Readability	Verification value	Minimal load	Repro- ducibility	Linearity	excl. of VAT	Verifica	ation	Options DAkkS Calibr. C	ertificate
KERN	[Max]	[d] mg	[e] mg	[Min] mg	mg	mg	ex works €	MI	€	DAkkS	€
ACS 80-4	82	0,1	-	-	0,2	± 0,3	1230,-	KERN -	-	KERN 963-101	191,-
ACS 100-4	120	0,1	-	-	0,2	± 0,3	1330,-	-	_	963-101	191,-
ACS 200-4	220	0,1	-	-	0,2	± 0,3	1430,-	-	-	963-101	191,-
ACS 300-4	320	0,1	-	-	0,2	± 0,3	1630,-	-	-	963-101	191,-

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ACJ 80-4M	82	0,1	1	10	0,2	± 0,3	1370,-	965-201	150,-	963-101	191,-
ACJ 100-4M	120	0,1	1	10	0,2	± 0,3	1430,-	965-201	150,-	963-101	191,-
ACJ 200-4M	220	0,1	1	10	0,2	± 0,3	1530,-	965-201	150,-	963-101	191,-
ACJ 300-4M	320	0,1	1	10	0,2	± 0,3	1730,-	965-201	150,-	963-101	191,-



The premium model with single-cell weighing system

Features

- Automatic internal adjustment in the case of a change in temperature ≥ 0,5 °C or timecontrolled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- Dosage aid: High stability mode and other filter settings can be selected
- Simple recipe weighing and documenting with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight
- Identification number: 4 digits, printed on calibration protocol freely programmable
- Printout of a GLP-compliant calibration report conveniently at the touch of a button
- Automatic data output to the PC/printer each time the balance is steady

- Large glass draught shield with 3 sliding doors for easy access to the items being weighed.
- Protective working cover included with delivery

Technical data

- Large LCD display, digit height 14 mm
- Dimensions weighing surface Ø 80 mm, stainless steel
- Weighing space W×D×H 168×172×223 mm
- Overall dimensions W×D×H 217×356×338 mm
- Net weight approx. 7 kg
- Permissible ambient temperature 10 °C/30 °C









Single-cell advanced technology:

- Fully automatic manufactured weighing cell from one piece of material
- · Stable temperature behaviour
- Short stabilisation time: steady weight values within approx. 4 s (models with [d] = 0,1 mg), approx. 10 s (models with [d] = 0,01 mg) under laboratory conditions
- · Shock proof construction
- · High corner load performance

Accessories

- Protective working cover, scope of delivery
 5 items, KERN ABT-A02S05, € 44,-
- III Set for density determination of liquids and solids with density ≤/≥ 1, the density is indicated directly on the display, KERN YDB-03, € 380,-
- ② Ioniser to neutralise electrostatic charge, KERN YBI-01A, € 1000,-
- ■ Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03, € 1030,-
- Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, € 10,-
- Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ),
 Operating Qualification (OQ)
- Further details, plenty of further accessories and suitable printers see Accessories

STANDARD

























Model	Weighing	Readability	Verification	Minimal	Repro-	Linearity	Price		Options		
	capacity	f .a	value	load	ducibility		excl. of VAT	Verifica	Verification DAkkS Cali		ertificate
	[Max]	[d]	[e]	[Min]			ex works	ΜŒ		DAkkS	
KERN	g	mg	mg	mg	mg	mg	€	KERN	€	KERN	€
ABT 100-5NM	101	0,01	1	1	0,05	± 0,15	2500,-	965-201	150,-	963-101	191,-
ABT 120-4NM	120	0,1	1	10	0,1	± 0,2	1900,-	965-201	150,-	963-101	191,-
ABT 220-4NM	220	0,1	1	10	0,1	± 0,2	2300,-	965-201	150,-	963-101	191,-
ABT 320-4NM	320	0,1	1	10	0,1	± 0,3	2600,-	965-201	150,-	963-101	191,-

Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d]

		and wi	ich the load	a is rully reli	loved, the bala	TICC SWITCHES DO	ok to the lov	wei runge			
ABT 120-5DNM	42 120	0,01 0,1	1 1	1	0,02 0,1	± 0,05 0,2	2550,-	965-201	150,-	963-101	191,-
ABT 220-5DNM	82 220	0,01 0,1	1 1	1	0,05 0,1	± 0,1 0,2	2650,-	965-201	150,-	963-101	191,-

ALL-ROUND SECURITY IN DAILY LABORATORY LIFE

For quality assurance and easy, compliant sequences in the laboratory, KERN offers you an extensive range of services and plenty of suitable accessories – we will be happy to advise you.



All details on DAkkS calibration certificates for test weights, our KERN calibration service and other useful information can be found here: www.kern-lab.com

Looking for the right test equipment?

Sit back and relax! You will find that we have an enormous range of test weights and suitable calibration services – all in accordance with the current DAkkS guidelines.

For example, discover our DAkkS-calibrated KERN Safety Sets each with an appropriate test weight for correct adjusting of the balance, a small test weight for checking the minimum sample weight, plus space for another separate test weight.

Extensive details on all topics see *Test Weights*.



The benefit of KERN accessories:

Count on it – everything fits together!
Our product advisors can recommend the fitting accessories for your KERN devices, so that your individual weighing systems seamlessly work together in a stable and reliable way.

Our accessory tips for all KERN laboratory balances

For **thermal printer**, KERN YKH-01 or other suitable printers, see *Accessories*



Draft shield rear panel with integrated ioniser,

to neutralise electrostatic charge, guarantees extremely rapid ionisation, KERN ABP-A01, see *Analytical Balances*



Solid weighing table

Professionalism and security for a stable weighing environment. Suitable for all laboratory balances, KERN YPS-03, see *Accessories*



→ Didn't find the right product in the catalogue?

You can find the full range of accessories and available KERN test equipment on the internet under www.kern-sohn.com





Premium analytical balance with the latest Single-Cell Generation for extremely rapid, stable weighing results - now also as a version with automatic sliding doors



■ The internal draught shield minimises the effect of currents of air in the weighing chamber and therefore significantly improves the stabilisation time and repeatability



■ Draught shield rear panel with integrated ioniser, which can be fitted in place of the existing glass rear panel of the draught shield. Extremely fast ionization process, thanks to the latest generation of KERN ionization technology to neutralise electrostatic charge



GLP/ISO record keeping: professional, detailed GLP Protocol, so that the balance is completely compliant with the relevant standard requirements in accordance with ISO, GLP and GMP

Features

- · This new generation of analytical balances combines the highest level of precision with large weighing ranges. Thanks to the new Single-Cell Generation, the weighing result is displayed in a fraction of the time with comparable models. Together with the intuitively structured menu, this means that you can work efficiently and rapidly
- · Large glass draught shield with 3 sliding doors for easy access to the items being weighed
- · KERN ABP-A: with 3 automatic sliding doors, which can be opened and closed using sensors, and integrated ioniser as standard. Thanks to the Memory Function, the balance stores how far the sliding doors have been opened. This prevents contamination and accelerates processes. Touching the sliding doors "gently" activates the push function and the doors open and shut automatically. The adjustable internal draught shield guarantees maximum stability of the weight readings
- · Navigation pad for super quick navigating through the menus
- · Automatic internal adjustment in the case of a change in temperature ≥ 1 °C or timecontrolled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- · The minimum weight of sample can be manually stored in the device or automatically calculated. For weighings below this value, the balance issues a warning message
- Dosage aid: High stability mode and other filter settings can be selected
- · Simple recipe weighing and documenting with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight
- Individual user settings can be stored for up to 10 users: user name/number (can be printed out or added to the record for each process),

- password, menu language, user profiles, accessing user settings via barcode, additional guest mode for users who are not logged in, authorizations, eg. B. balance adjustment, changing settings or conditioning or modification of a recipe only by the authorized person & performing the formulation by the user
- · RS 232 data interfaces and USB (device) for transferring weighing data and USB (host) to connect a USB keyboard for easy capture of item numbers, recipes, for easier navigation within the menu etc.
- · U.S. FDA 21 Part 11: assists you in data integrity in accordance with U.S. FDA 21 Part 11 (for example weighing result, sample ID, user name, scales ID, ...)
- · Menu languages DE, EN
- Automatic data output to the PC/printer each time the balance is steady for models with [d] = 0,0001 g
- · Multi-function weighing plate included with delivery, minimises the effect of currents of air in the weighing chamber and therefore significantly improves the stabilisation time and repeatability. In addition samples, sample paper, PCR containers, micro centrifuge tubes and many other items which protrude can be easily fixed in place and weighed easily
- ABP 200-5M: Erlenmeyer flask holder included with delivery
- · Protective working cover included with delivery

Technical data

- · Luminescent OLED display, digit height 12 mm bright with high contrast, for easy reading of the weight, even in poor lighting conditions
- Dimensions weighing surface Ø 91 mm, stainless steel
- Weighing space W×D×H 166×156×220 mm
- Overall dimensions W×D×H 220×370×350 mm
- Net weight approx. 8 kg
- Permissible ambient temperature 10 °C/30 °C

Accessories

- · Protective working cover, scope of delivery 5 items, KERN YBA-A06S05, € 44,-
- · Set for density determination of liquids and solids with density $\leq/\geq 1$, the density is indicated directly on the display, KERN YDB-03, € 380,-
- Internal draught shield made of glass, KERN ABP-A02, € 165,-
- 2 Draught shield rear panel with integrated ionizer to neutralise electrostatic charge. Is fitted in place of the existing glass rear panel of the draught shield. Suitable for all models in the range, please order at the time you order your balance, the scope of delivery is the rear panel, ionizer, Universal plug-in power supply. Factory Option, KERN ABP-A01, € 1990,-
- · USB barcode scanner, hand-held version, dimensions W×D×H 152×84×63 mm. KERN PET-A09, € 300,-
- · Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, € 10,-
- · Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ)
- · Further details, plenty of further accessories and suitable printers see Accessories

Single-cell advanced technology:

- Fully automatic manufactured weighing cell from one piece of material
- · Stable temperature behaviour
- · Short stabilisation time: steady weight values within approx. 2 s (models with [d] = 0,1 mg), approx. 8 s (models with [d] = 0,01 mg) under laboratory conditions
- · Shock proof construction
- · High corner load performance

STANDARD































OPTION DAkkS



Model	Weighing capacity [Max]	Readability	Verification value [e]	Minimal load [Min]	Repro- ducibility	Linearity	Price excl. of VAT ex works	Verifica	ition	Options DAkkS Calibr. C DAkkS	ertificate
KERN	g	mg	mg	mg	mg	mg	€	KERN	€	KERN	€
ABP 100-5M	135	0,01	1	1	0,05	± 0,1	4200,-	965-201	150,-	963-101	191,-
ABP 200-5M	220	0,01	1	1	0,05	± 0,1	6000,-	965-201	150,-	963-101	191,-
ABP 100-4M	120	0,1	1	10	0,1	± 0,2	2200,-	965-201	150,-	963-101	191,-
ABP 200-4M	220	0,1	1	10	0,1	± 0,2	2700,-	965-201	150,-	963-101	191,-
ABP 300-4M	320	0.1	1	10	0.2	± 0.3	3000	965-201	150	963-101	191

Multi-division balance, with increasing or decreasing load, it switches automatically

		to the next la	igest of sil	idilest weigiiii	ig runge [ividx] e	ina readout	[u].			
ABP 100-5DM	52 120 0,01 0,1	1 1	1	0,02 0,1	± 0,05 0,2	3200,-	965-201	150,-	963-101	191,-
ABP 200-5DM	102 220 0,01 0,1	1 1	1	0,05 0,1	± 0,1 0,2	3400,-	965-201	150,-	963-101	191,-



Automatic sliding doors, which can be opened and closed using sensors





Opening possible alternatively via button



KERN ABP-A with integrated ioniser and internal draft shield



PREMIUM

Ioniser (included) can be activated at the touch of a button



Erlenmeyer piston holder, included as standard with ABP 200-5M and ABP 200-5AM



Multi-function weighing plate, Note: included with delivery for models with [d] = 0,01 mg

STANDARD





of the series ABP-A





Internal draft shield - minimises the

effect of air currents in the weighing

chamber, only for 0.01 mg models



























Weighing Model Readability Verification Minimal Repro-Linearity Price Options excl. of VAT capacity value load ducibility Verification **DAkkS Calibr. Certificate** [Max] [d] [e] [Min] ex works ΜŒ DAkkS KERN mg mg mg mg mg g KERN KERN **ABP 100-5AM** 135 0,01 1 1 0,05 $\pm 0,1$ 9200,-965-201 150,-963-101 191, **ABP 200-5AM** 220 0,01 0,05 11200,-965-201 150,-963-101 ± 0.1 **ABP 200-4AM** 220 0,1 10 0,1 $\pm 0,2$ 5900,-965-201 150, 963-101 191,-**ABP 300-4AM** 320 963-101 191,-0,1 10 0,2 $\pm 0,3$ 6400,-965-201 150,

Multi-division balance, with increasing or decreasing load, it switches automatically

to the next largest or smallest weighing range [Max] and readout [d].											
ABP 100-5DAM	52 120	0,01 0,1	1 1	1	0,02 0,1	± 0,05 0,2	6800,-	965-201	150,-	963-101	191,-
ABP 200-5DAM	102 220	0,01 0,1	1 1	1	0,05 0,1	± 0,1 0,2	9000,-	965-201	150,-	963-101	191,-





MOISTURE ANALYSERS

They have a number of memories, network connectivity, different heating modes and are easy to use due to the intuitive operation and easy-to-read displays. Our high-quality moisture analysers are ideal for use in the food processing industry, water resource management, plastics industry, the energy industry or agriculture.

Halogen moisture analysers for rapid, reliable measuring results

Our models work on the thermogravimetric principle which means the sample is weighed and warmed with a halogen lamp. During this procedure, the weight loss is recorded continuously while it is drying until it reaches the defined value. The current moisture content for the sample can then be automatically calculated from the measured weight difference. All benefits of our moisture analysers with halogen drying:

- · Even heating of the sample without risk of burning
- · Rapid amortisation through low purchase costs
- Temperature ranges from 35 to 200 degrees $\,$
- High level of measurement accuracy to 0.01 %
- Spare capacity, weighing range up to 200 g
 You can select between different heating profiles
- You can select between different switch-off criteria, automatic or time-controlled

The drying programs

Depending on the model, our moisture analysers have different heating profiles, so the procedure can be adapted to best suit the sample in question.

- The standard drying setting is suitable for most types of sample. As an option you can choose between these two types of switch-off criteria: Automatic drying (AUTO) or time-controlled (TIME)
- Rapid drying is suitable for samples with a high moisture content
- Smooth heating through gentle drying prevents disintegration and formation of a skin
- As an alternative to rapid drying, you can also use stage drying as well.
 The temperature and the time period for the increase in temperature can be freely selected. Equally, the moisture can be determined selectively for different temperatures

Our recommendation: The high-performance DBS moisture analyser with excellent stability, reliability and reaction speed, 10 drying programs can be stored and memory for 100 drying processes carried out as well as a USB and RS 232 data interface.

Simple data transfer

For easy, convenient communication between the moisture analyser and printer, or PC there are interfaces available, for example to connect a USB or Ethernet. The devices themselves have several internal memories, where you can store drying programs with drying parameters, such as, for example, drying period, drying temperature, display settings, switch-off criteria etc. This saves time and guarantees repeatable results. Compatible printers to print out weights, calibration and interface kits are available in our extensive range of accessories, suitable for each moisture analyser.

For communication between the balance and the printer, the moisture analyser must be disconnected from the power supply and connected to the printer. We guarantee fault-free operation with the KERN interface cable. To transfer the values to the PC we recommend our "Balance Connection KERN SCD 4.0" transfer software. Programs such as Excel or other spreadsheet applications are ideal for displaying graphics.

Our recommendation: DLB moisture analyser with intuitive graphics display, multi-lingual user guidance, convenient Auto-Tare when closing the lid and RS 232 data interfacee.

Our service options

In order for the comparability of the results of moisture analyses to be guaranteed, the correct temperatures must be maintained in the heating chamber or sample. We offer our customers regular calibration of the temperature for genuine and reliable measuring results KERN 964-305, € 174.-

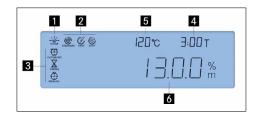
If requested, we can carry out sample analysis for you and support you in adjusting the parameters of your moisture analyser KERN 965-243, € 95,-/hour.

Please contact your personal customer advisor if you would like us to help!

Quick-Finder Moisture Analysers

Readability [d]	Weighing capacity [Max]	Model	Price excl. of VAT ex works	Page	DAYS	CAL EXT	MEMORY	RS 232	S
g	g	KERN	€		For an ex	planation o	on the pict	os, see the	front flap
0,001	60	DBS 60-3	1650,-	55	1	•	•	•	•
0,001	110	DAB 100-3	1250,-	54	1	•	•	•	•
0,001	160	DLB 160-3A	1490,-	56	1	•		•	•
0,01	200	DAB 200-2	1200,-	54	1	•	•	•	•











Particularly user-friendly moisture analyser with high-quality halogen quartz glass heater - also available as version with [d] = 10 mg, ideal for recurring rapid tests

Features

- KERN DAB 200-2: Version with lower resolution, whereby the switch-off criterion is reached faster, which saves time. Ideal for quick tests and spot checks
- · Backlit graphic display, digit height 14 mm
- 1 Active drying process
- 2 Active heating profile
- 3 Active switch-off criteria
- 4 Previous drying time
- 5 Current temperature

- 6 Current moisture content in %
- 400 W halogen-quartz glass heater
- Suitable for temperature-insensitive samples
- · Observation window above the sample, useful during initial setting
- · Internal memory for automatic sequence of 15 complete drying processes and 5 drying processes carried out
- The last value measured remains on the display until it is replaced by a new measurement
- 50 sample plates included

- Application handbook: In the download centre you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser
- · Note: both models are also available in infrared version, see accessories























KERN	DAB 100-3	DAB 200-2				
Readability [d] Weight/Moisture (%)	0,001 g / 0,01%	0,01 g / 0,05%				
Weighing capacity [Max]	110 g	200 g				
Reproducibility weight of sample 2 g*	0,15%	1,5%				
Reproducibility weight of sample 10 g*	0,03%	0,3%				
Display after drying (Display can be switched	l over at any time)					
Moisture [%] = Moisture content (M) from wet weight (W)	0 - 1	00 %				
Dry content [%] = Dry weight (D) from W	100	- 0 %				
Moisture content (M)	Absolute v	alue in [g]				
Temperature range (in steps up to)	40 °C - 199 °C (1 °C)					
Drying modes	_ Gentle	, ,				
	┌ ─ Rapid drying					
	· Automatic switch-off (2 mg loss in weight in 45 s)					
Switch-off criteria	· Time controlled switch-off (3 mir					
-	· Manual switch-off at the press					
Recall of measurement/ Log output	Interval can be set					
- <u> </u>	` ,	with printer or PC)				
Overall dimensions W×D×H	240×365×180 mm					
Net weight	4,82	2 kg				
Price excl. of VAT ex works €	1250,- 1200,-					
Option DAkkS Calibr. Certificate Mass	KERN 963-	127, € 98, -				
Option Factory Calibr. Certificate Temperature	KERN 964-305, € 174,-					

application-dependent

- Sample plates aluminium, Ø 90 mm, unit of 80 pieces, KERN MLB-A01A, € 45,-
- · Round fiberglass filter, medium mechanical stability, without organic binder, box of 100 pieces, KERN RH-A02, € 86,-
- Round fiberglass filter, medium mechanical stability, without organic binder, box of 100 pieces, KERN YMF-A01, € 45,-
- 7 Temperature calibration set consists of measuring sensor and display device, KERN DAB-A01., € 200,-
- 8 Infrared quartz glass heater, temperature range 40 °C-160 °C, Factory Option, KERN DAB-A02, € 198,-
- · Display of the drying process in conjunction with BalanceConnection, Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs, for more details see internet, scope of supplies: 1 CD, 1 license, KERN SCD-4.0, € 210,-
- Thermal printer, KERN YKB-01N, € 380,-
- · Matrix needle printer, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013, € 480,-



Moisture analyser with high-quality single-cell weighing system for outstanding stability, reliability and response speed

Features

- Tip: Suitable for samples with low moisture content, e.g. plastics
- Backlit graphic display, digit height 15 mm
- Active drying process
- 2 Previous drying time
- 3 Current temperature
- 4 Unit for displaying the results

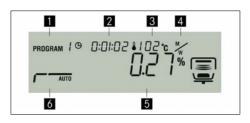
- 5 Current moisture content in %
- 6 Active heating profile
- · 400 W halogen-quartz glass heater
- Excellent temperature control thanks to halogen technology, suitable for temperaturesensitive samples
- Internal memory for automatic sequence of 10 complete drying processes and 100 drying processes carried out

STANDARD

STANDA

CAL EXT MEMORY RS 232 USB INTERN UNIT 230 V	FORCE SC TECH 1 DAY +3 DAYS						
KERN	DBS 60-3						
Readability [d] Weight/Moisture (%)	0,001 g / 0,01%						
Weighing capacity [Max]	60 g						
Reproducibility weight of sample 2 g*	0,15%						
Reproducibility weight of sample 10 g*	0,02%						
Display after drying							
Moisture [%] = Moisture content (M) from wet weight (W)	0 - 100 %						
Dry content [%] = Dry weight (D) from W	100 - 0 %						
ATRO [%] [(W-D) : D] · 100 %	0 - 999 %						
Moisture content (M)	Absolute value in [g]						
Temperature range (in steps up to)	50 °C - 200 °C (1 °C)						
Drying modes	¬── Standard drying ¬── Drying in levels ¬── Gentle drying ¬── Rapid drying						
Switch-off criteria	Automatic unrestricted switch-off (Selectable loss in weight 0,01% – 0,1% in 30 s) Time controlled switch-off (1 min – 12 h) Manual switch-off at the press of a button						
Recall of measurement/ Log output	Interval can be set from 1 s - 10 min (Only when used with printer or PC)						
Overall dimensions W×D×H	204×336×167 mm						
Net weight	4,6 kg						
Price excl. of VAT ex works €	1650,-						
Option DAkkS Calibr. Certificate Mass	KERN 963-127, € 98,-						
Option Factory Calibr. Certificate Temperature	KERN 964-305, € 174, -						
* application dependent							

^{*} application-dependent





- The last value measured remains on the display until it is replaced by a new measurement
- Password protection to prevent manipulation of stored settings, data, etc.
- Sample description for up to 99 samples,
 2 digits, freely programmable, and is printed in the measuring protocol
- · Date and time display as standard
- USB data interface for transferring weighing data to the PC, printer etc.
- · 10 sample plates included
- · Protective working cover included with delivery
- Application handbook: In the download centre you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

- Protective working cover, scope of delivery
 5 items, KERN DBS-A03S05, € 44,-
- Sample plates aluminium, Ø 90 mm, unit of 80 pieces, KERN MLB-A01A, € 45,-
- Round fiberglass filter, medium mechanical stability, without organic binder, box of 100 pieces, KERN RH-A02, € 86,-
- Temperature calibration set consists of measuring sensor and display device, KERN DBS-A01., € 570,-
- USB 2.0 cable, KERN DBS-A04, **€ 28,**-
- ✓ Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs, Scope of supplies: Download link for 1 license, KERN SCD-4.0-DL, € 210,-
- Thermal printer, KERN YKB-01N, € 380,-
- Matrix needle printer, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013, € 480,-
- Affordable universal label printer to print out weights on thermal labels. ASCII-capable.
 Convenient Auto-Forward function to automatically jump from label to label (only with KERN standard labels), KERN YKE-01, € 790,-



Moisture analyser with intuitive graphic display and step-by-step user guidance in 6 languages

Features

- Rapid and efficient operation thanks to the graphics display
- Backlit LCD graphic display, digit height 11 mm
- 6 direct keys for rapid access to the main functions

Home screen:

- 1 Main menu
- 2 Start drying process
- 3 Select drying temperature

- 4 Select shut-off criteria
- 5 Setting to zero/taring
- 6 Stand-by

During measurement:

- Current temperature
- 8 Current heating profile
- Active switch-off criteria
- 10 Abort drying process
- 11 Stop drying process
- Display current drying parameters
- 13 Toggle the unit for displaying the results

STANDARD

















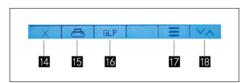


KERN	DLB 160-3A
Readability [d] Weight/Moisture (%)	0,001 g / 0,01%
Weighing capacity [Max]	160 g
Reproducibility weight of sample 2 g*	0,15%
Reproducibility weight of sample 10 g*	0,05%
Display after drying (Display can be switched	l over at any time)
Moisture [%] = Moisture content (M) from wet weight (W)	0 - 100 %
Dry content [%] = Dry weight (D) from W	100 - 0 %
ATRO [%] [(W-D) : D] · 100 %	0 - 999 %
Moisture content (M)	Absolutwert in [g]
Temperature range (in steps up to)	35 °C - 160 °C (1 °C)
Drying modes	
	┌─ Rapid drying, preheating can be switched on
	Automatic unrestricted switch-off
Switch-off criteria	(Selectable loss in weight 1 mg/30 s-10 mg/30 s)
Owiton on criteria	· Time controlled switch-off (1 min – 99 min)
	· Manual switch-off at the press of a button
Log output	Interval adjustable (5 s - 250 s)
Overall dimensions W×D×H	240×365×180 mm
Net weight	4,82 kg
Price excl. of VAT ex works €	1490,-
Option DAkkS Calibr. Certificate Mass	KERN 963-127, € 98,-
Option DAkkS Calibr. Certificate Temperature	KERN 964-305, € 174,-
# P P I I I	1 0 0 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1

- * application-dependent
- ONLY WHILE STOCKS LAST









At the end of the measurement:

- 14 Exit drying program
- 15 Print measurement report
- 16 (De)activate, edit GLP parameters
- 17 Display detailed result
- 18 Toggle the unit for displaying the results
- 400 W halogen-quartz glass heater
- User guidance in 6 languages (DE, EN, FR, IT, ES, PT)
- Automatic taring when starting a measurement by closing the lid
- The last value measured remains on the display until it is replaced by a new measurement
- Internal GLP; printout of balance ID, project ID, user ID, values determined by the drying process etc.
- 10 sample plates included
- Protective working cover included with delivery
- Application handbook: In the download centre you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

- Protective working cover, scope of delivery
 5 items, KERN ALJ-A01S05, € 44,-
- Sample plates aluminium, Ø 90 mm,
 unit of 80 pieces, KERN MLB-A01A, € 45,-
- Round fiberglass filter, medium mechanical stability, without organic binder, box of 100 pieces, KERN RH-A02, € 86,-
- Round fiberglass filter, medium mechanical stability, without organic binder, box of 100 pieces, KERN YMF-A01, € 45,-
- Temperature calibration set consists of measuring sensor and display device KERN DLB-A01N., € 570,-
- Thermal printer, KERN YKB-01N, € 380,-
- Matrix needle printer, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013, € 480,-



BENCH SCALES

Compact industrial weighing technology

Thanks to their compact dimensions, low weight, robust internal mechanism and the fact that they can be operated independent of mains power, bench scales can be used not only in a stationary situation, but also as mobile scales.

With weighing ranges between 3 kg and 65 kg, bench scales can cover a wide range of applications. Whether as a commissioning scale in the warehouse, for inventory purposes, on a production work station, in quality control, in small workshops, in service cars or in sales offices, bench scales are the first choice.

Durable stainless steel weighing plates, easy to read backlit displays, useful functions such as piece counting, PRE-TARE – subtraction of a known container weight, or **>** *interfaces* to PC and printer – all these support the users in their daily work.

► Multi-division balances and multi-range balances cover a particularly wide range of applications. With these scales, the total weighing range is divided into subranges and begins with a high resolution read-out in the fine weighing range. If this range is exceeded the balance automatically switches to the higher weighing range with the lower resolution read-out.

All KERN bench scales have an adjustment program (CAL) to adjust the accuracy. This way, the high level of accuracy is guaranteed at all times, even during harsh everyday use. See *Test weights*

► See the Glossary

Quick-Finder Bench Scales

Readability [d]	Weighing capacity	Weighing plate	Model	Price excl. of VAT	Page	DAYS	M	CAL EXT	RS 232	₩ KUP	PCS	-√+ T0L	^- MOVE	BATT	ACCU
g	[Max]	W×D		ex works											
	kg	mm	KERN	€			F	or an ex	planatio	n on the	pictos,	see the	front fla	р	
0,02	6	340×240	FKB 6K0.02	520,-	62	1		•	0	•	•	•	•	•	0
0,05	6	252×225	FCB 6K-5	330,-	61	1		•	0	•	•	•		•	0
0,05	6	295×225	GAB 6K0.05N	395,-	64	1		•	•		•	•			0
0,05	8	340×240	FKB 8K0.05	490,-	62	1		•	0		•	•	•	•	0
0,05	16	340×240	FKB 16K0.05	550,-	62	1		•	0	•	•	•	•	•	0
0,1	8	252×225	FCB 8K0.1	275,-	61	1		•	0	•	•	•	•	•	0
0,1	8	340×240	FKB 8K0.1	360,-	62	1		•	0	•	•	•	•	•	0
0,1	12	252×225	FCB 12K-4	330,-	61	1		•	0	•	•	•	•	•	0
0,1	12	295×225	GAB 12K0.1N	395,-	64	1		•	•		•	•			0
0,1	16	340×240	FKB 16K0.1	495,-	62	1		•	0		•	•		•	0
0,1	36	340×240	FKB 36K0.1	550,-	62	1		•	0		•	•		•	0
0,2	30	252×225	FCB 30K-4	330,-	61	1		•	0	•	•	•	•	•	0
0,2	30	295×225	GAB 30K0.2N	395,-	64	1		•	•		•	•			0
0,2	36	340×240	FKB 36K0.2	550,-	62	1		•				•		•	
0,2	65	340×240	FKB 65K0.2	525,-	62	1		•	0	•	•	•		•	0
0,5	15	340×240	FKB 15K0.5	385,-	62	1		•		•	•	•		•	
1	3	253×228	FCE 3K1N	135,-	60	1		•						•	0
1	12	252×225	FCB 12K1	220,-	61	1		•	0	•	•	•	•	•	0
1	30	252×225	FCB 30K1	260,-	61	1		•	0	•	•	•	0	•	0
1	30	340×240	FKB 30K1	340,-	62	1		•			•	•		•	
1	65	340×240	FKB 65K1	360,-	62	1		•	0		•	•	•	•	0
1 2	3 6	295×225	GAB 6K1DNM	310,-	64	1	0	•	•		•	•			0
2	6	253×228	FCE 6K2N	135,-	60	1		•						•	0
2 5	6 15	295×225	GAB 15K2DNM	310,-	64	1	0	•	•		•	•			0
5	10	320×260	ECE 10K-3N	120,-	59	1		•						•	0
5	10	320×260	ECB 10K-3N	140,-	59	1		•						•	0
5	15	253×228	FCE 15K5N	135,-	60	1		•						•	0
5 10	15 30	295×225	GAB 30K5DNM	310,-	64	1	0	•	•		•	•			0
10	20	320×260	ECE 20K-2N	120,-	59	1		•						•	0
10	20	320×260	ECB 20K-2N	140,-	59	1		•						•	0
10	30	253×228	FCE 30K10N	135,-	60	1		•						•	0
20	50	320×260	ECE 50K-2N	120,-	59	1		•						•	0
20	50	320×260	ECB 50K-2N	140,-	59	1		•						•	0

☐ News 2024

● Standard ○ Option







Plain, mobile, uncomplicated

Features

- 2 High mobility: Thanks to battery operation/ rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department, etc.)
- · Particularly large weighing plate
- Very fast display: steady weight values within 2 s
- Simple and convenient 2-key operation

Technical data

II KERN ECE

- Large LCD display, digit height 21 mm
- Dimensions weighing surface, plastic, W×D 320×260 mm
- · Net weight approx. 1,6 kg

KERN ECB, see larger picture

- Large backlit LCD display, digit height 21 mm
- · Dimensions weighing surface, stainless steel, W×D 320×260 mm
- Net weight approx. 2,6 kg

KERN ECE/ECB

- Overall dimensions W×D×H 320×300×60 mm
- Battery operation, 6×1.5 V AA standard, operating time up to 100 h, AUTO-OFF function to preserve the battery
- Permissible ambient temperature 5 $^{\circ}\text{C}/35$ $^{\circ}\text{C}$

- · Internal rechargeable battery pack, operating time up to 30 h without backlight, charging time approx. 10 h, KERN PCB-A01, **€ 90,**-
- · Rechargeable battery pack external, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, € 180,-
- Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02, € 75,-
- External universal mains adapter, with universal input and optional input socket adapters for EU, CH, GB, US, KERN YKA-03N, € 38,-
- Further details, plenty of further accessories and suitable printers see Accessories

















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EXT	BATT	DMS	1 DAY	ACCU	MULTI	+3 DAY
del			Weig	hing ca	pacity	
			U	0	, ,	

Model	Weighing capacity	Readability	Reproducibility	Linearity	Price excl. of VAT	Options DAkkS Calibr. Certificate		
KERN	[Max] kg	[d] g	g	g	ex works €	DAkkS KERN	€	
ECE 10K-3N	10	5	5	± 20	120,-	963-128	118,-	
ECE 20K-2N	20	10	10	± 40	120,-	963-128	118,-	
ECE 50K-2N	50	20	20	± 80	120,-	963-128	118,-	
ECB 10K-3N	10	5	5	± 20	140,-	963-128	118,-	
ECB 20K-2N	20	10	10	± 40	140,-	963-128	118,-	
ECB 50K-2N	50	20	20	± 80	140,-	963-128	118	









Entry-level bench scale - mobile, practical, lightweight

Features

- Simple and convenient 2-key operation
- Very fast display: steady weight values within 3 s
- 11 Ideal as a compact letter and parcel scale, especially where space is limited
- 2 Ideal as a grading, comissioning or simple checkweighing scale in production or dispatch
- · Protective working cover included with delivery

Technical data

- · Large LCD display, digit height 25 mm
- Dimensions weighing surface, plastic, W×D 253×228 mm
- Overall dimensions W×D×H 270×323×110 mm
- Optional battery operation, 9 V block not included in scope of delivery, operating time up to 12 h, AUTO-OFF function to preserve the battery
- Net weight approx. 2,4 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- · Protective working cover, scope of delivery 5 items, KERN FCB-A02S05, € 44,-
- 3 Stainless steel weighing plate, robust, removable, for easy cleaning, KERN FCE-A01, € 40,-
- · Internal rechargeable battery pack, operating time up to 20 h without backlight, charging time approx. 10 h, KERN FCB-A01, € 54,-















Model	Weighing capacity	Readability	Reproducibility	Linearity	,		s Certificate
KERN	[Max] kg	[d] g	g	g	ex works €	DAkkS KERN	€
FCE 3K1N	3	1	2	± 3	135,-	963-127	98,-
FCE 6K2N	6	2	2	± 4	135,-	963-128	118,-
FCE 15K5N	15	5	10	± 15	135,-	963-128	118,-
FCE 30K10N	30	10	10	± 30	135,-	963-128	118,-

■ * ONLY WHILE STOCKS LAST











The new FCB: Checkweighing and portioning scale with up to three interfaces

Features

- Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- · Compact size, practical for small spaces
- Industry 4.0: Data and control commands can be exchanged through the KERN Universal Port using one interface, which can be connected to the housing, or through three parallel interfaces using the KUP Extension box. The following interfaces are available as an option: RS-232, USB, Ethernet, WiFi, Bluetooth
- Data query and remote control of the balance using a computer or CRM/ERP systems using the KERN Communication Protocol
- For further information on KUP and KCP see page 20/21
- High mobility: Thanks to battery operation/ rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department, etc.)

- Weighing with tolerance range (checkweighing): Input of two upper and two lower limit values through four arrow keys. An audible and visual signal assists with the portioning, dispensing or grading
- Summation of weight values
- Protective working cover included with delivery

Technical data

- Backlit LCD display, digit height 24 mm
- Dimensions weighing surface, stainless steel, W×D 252×225 mm
- Overall dimensions W×D×H 322×267×91 mm
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 20 h
- Net weight approx. 3,8 kg
- Permissible ambient temperature 0 °C/40 °C

Accessories

- Protective working cover, scope of delivery
 5 items, KERN YBA-A14SO5, € 44,-
- Signal lamp for visual support of weighing with tolerance range. connection is only possible in combination with KUP-01 (RS 232 interface), KERN CFS-A03, € 310,-
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, € 35,-
- External data interface RS-232, interface cable included, KERN KUP-01, € 60,-
- External data interface USB, interface cable included, KERN KUP-03, € 75,-
- Interface adapter Ethernet,
 KERN KUP-04, € 115,-
- Interface adapter WiFi, KERN KUP-05, € 75,-
- Bluetooth interface adapter, KERN KUP-06, € 99,-
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13, € 75,-
- Further details, plenty of further accessories and suitable printers see Accessories

STANDARD										OPTION	
3 5	KCB	GLP	 0/	α	-√ +	^- -	(MAN)	В 💾		ଜ	

UNIT TOL MOVE BATT MULTI

Model		Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Smallest part weight (Normal)	Resolution	Price excl. of VAT ex works	Option: DAkkS Calibr. C	
KERN		kg	g	g	g	g/piece	Points	€	KERN	€
FCB 6K-5	NEW	6	0,05	0,05	± 0,15	0,5	120.000	330,-	963-128	118,-
FCB 8K0.1	NEW	8	0,1	0,1	± 0,3	1	80.000	275,-	963-128	118,-
FCB 12K-4	NEW	12	0,1	0,1	± 0,3	1	120.000	330,-	963-128	118,-
FCB 12K1	NEW	12	1	1	± 3	10	12.000	220,-	963-128	118,-
FCB 30K-4	NEW	30	0,2	0,2	± 0,6	2	150.000	330,-	963-128	118,-
FCB 30K1	NEW	30	1	1	± 3	10	30.000	260,-	963-128	118,-

DMS

ET RS 232

New model









High resolution bench scale with large weighing range and robust stainless steel weighing plate

Features

- Thanks to the high resolution of up to 360.000 points it is ideal for high-precision weighing in the industrial field
- Robust plastic die-cast housing: maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- Industry 4.0: The integrated KERN Universal Port (KUP) allows the connection of external KUP interface adapters such as RS-232, USB, Bluetooth, WiFi, Analogue, Ethernet etc. The outstanding advantage here is that the KUP interface adapters are simply plugged in, i.e. retrofitting interfaces is conveniently possible without opening the scale housing or complicated installation. The interface adapters enable convenient transmission of weighing data to networks, PCs, smartphones,
- tablets, laptops, printers etc. In addition, control commands and data inputs can also be sent to the scale via the connected devices.
- Tip: with the KERN KUP-13 extension box, up to three KUP interface adapters can be operated in parallel on the scale
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Freely programmable weighing unit, e.g. display direct in special units such as length of wire g/m, surface weight g/m², or else
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard
- · Protective working cover included with delivery







Technical data

- · Large backlit LCD display, digit height 25 mm
- · Dimensions weighing surface, stainless steel, W×D 340×240 mm
- Overall dimensions W×D×H, 350×390×120 mm
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 20 h
- Net weight approx. 7 kg
- Permissible ambient temperature -10 $^{\circ}\text{C}/40~^{\circ}\text{C}$

Accessories

- Protective working cover, scope of delivery 5 items, KERN FKB-A02S05, € 44,-
- · Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, € 35,-
- · External data interface USB, interface cable included, KERN KUP-03, € 75,-
- · External data interface RS-232, interface cable included, KERN KUP-01, € 60,-
- · Interface adapter Ethernet, KERN KUP-04, € 115,-
- · Interface adapter WiFi, KERN KUP-05, € 75,-
- · Bluetooth interface adapter, KERN KUP-06, **€ 99,-**
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13, € 75,-
- Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02, € 75,-
- · Further details, plenty of further accessories and suitable printers see Accessories

■ Particularly practical: thanks to the large weighing ranges and compact dimensions, you can accurately weigh heavy loads in the most restricted of spaces. Useful for determining very small weight differences, such as, for example, gas wastage, abrasion of mechanical parts, rock samples, minerals, druses, silver etc.

















































Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Smallest part weight (Normal)	Resolution	Price excl. of VAT ex works	Option DAkkS Calibr. C DAkkS	
KERN	kg	g	g	g	g/piece	Points	€	KERN	€
FKB 6K0.02	6	0,02	0,04	± 0,1	0,2	300.000	520,-	963-128	118,-
FKB 8K0.05	8	0,05	0,05	± 0,15	0,5	160.000	490,-	963-128	118,-
FKB 16K0.05	16	0,05	0,1	± 0,25	0,5	320.000	550,-	963-128	118,-
FKB 8K0.1	8	0,1	0,1	± 0,3	1	80.000	360,-	963-128	118,-
FKB 16K0.1	16	0,1	0,1	± 0,3	1	160.000	495,-	963-128	118,-
FKB 15K0.5	15	0,5	0,5	± 1,5	10	30.000	385,-	963-128	118,-
FKB 36K0.1	36	0,1	0,2	± 0,5	1	360.000	550,-	963-128	118,-
FKB 36K0.2	36	0,2	0,4	± 1	2	180.000	550,-	963-128	118,-
FKB 65K0.2	65	0,2	0,4	± 1	2	325.000	525,-	963-129	146,-
FKB 30K1	30	1	1	± 3	20	30.000	340,-	963-128	118,-
FKB 65K1	65	1	1	± 3	20	65.000	360,-	963-129	146,-







Application examples

- · Small industrial scale for pharmacies
- · Hand mixtures of tea, coffee, chocolates
- · Portioning of dough, meat, fish, poultry, mixed salads in cafeterias etc.
- · Mobile weighing of freshly picked fruit on site
- · Checkweigher in supermarkets
- · High-precision industrial applications, piece counting or stock-taking Note: Official verification is mandatory for commercial trade

Checkweighing and portioning scale, verification optional

Features

- · Compact size, practical for small spaces
- · High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department, etc.)
- Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading
- · Summation of weight values
- · Protective working cover included with delivery

Technical data

- · Large backlit LCD display, digit height 24 mm
- · Dimensions weighing surface, stainless steel, W×D 295×225 mm
- Overall dimensions W×D×H 315×350×125 mm
- · Net weight approx. 3,0 kg
- Permissible ambient temperature 0 °C/40 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN CFS-A02S05, € 44,-
- · Internal rechargeable battery pack, operating time up to 90 h without backlight, charging time approx. 12 h, KERN GAB-A04, € 42,-
- Signal lamp for visual support of weighing with tolerance range, KERN CFS-A03, € 310,-
- 2 Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, € 38,-
- · Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02, € 75,-
- · Further details, plenty of further accessories and suitable printers see Accessories

STANDARD





























Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load	Smallest part weight (Normal)	Price excl. of VAT ex works	Verifica	•		ertificate
KERN	kg	g	g	g	g/piece	€	KERN	€	KERN	€
GAB 6K0.05N*	6	0,05	_	-	0,5	395,-	-	_	963-128	118,-
GAB 12K0.1N*	12	0,1	-	-	1	395,-	-	-	963-128	118,-
GAB 30K0.2N*	30	0,2	=	=	2	395,-	-	-	963-128	118,-
				reasing or decre	•		tically to the	9		
		n	ext largest or sr	nallest weighing	range [Max] and	d readout [d].				
GAB 6K1DNM*	3 6	1 2	1 2	20	2	310,-	965-228	84,-	963-128	118,-
GAB 15K2DNM*	6 15	2 5	2 5	40	5	310,-	965-228	84,-	963-128	118,-
GAB 30K5DNM*	15 30	5 10	5 10	100	10	310,-	965-228	84,-	963-128	118,-



FOOD (KITCHEN, STAINLESS STEEL, IP65...68 PROTECTION)

KERN scales - without fear of water!

Scales used in industrial situations or the food industry are often exposed to extreme stresses and strains. Water, oils, fats, varnish, dust, dirt, flour, small parts etc. are all natural enemies of a scale. In industries such as the food, chemical, manufacturing industries, etc., scales must be able to cope with these stressors without it affecting their performance.

For use in such harsh environmental conditions, levels of protection are defined, which specify which environmental stressors a system can be exposed to with respect to the level of contact, foreign object and moisture protection, without damage being caused to the unit.

These levels of protection are described in the following standard: "DIN EN 60529: protection types through housing" The IP code usually consists of a two-digit combination, which gives the relevant level of protection, e.g. IP68. The first digit specifies the protection level for contact protection and protection against foreign bodies (dust protection), the second digit is for the water and moisture protection (protection against splashes of water).

All stainless steel components of the IP65...68 protected KERN stainless steel scales are made of corrosion-resistant steel of quality class 1.4301 (DIN X5CrNi18-10). The material properties support you in your
* HACCP-compliant quality system.

► See the Glossary

Extract from the standard: "DIN EN 60529: protection types through housing":

KERN-Pictogram	1. digit	Specification	2. digit	Specification
♦ ♦♦ 1P65	6	Dustproof	5	Protection against jets of water (nozzle) from any angle (cleaning with a damp cloth)
♦ ♦♦	6	Dustproof	6	Protection against powerful jets of water
♦ ♦ ♦ IP 67	6	Dustproof	7	Protection against temporary immersion
♦♦♦ IP 68	6	Dustproof	8	Protection against continuous immersion (designed for continuous use in wet areas, submersion is possible depending on the pressure (water depth))

Quick-Finder Food (kitchen/stainless steel/IP65...68 protection)

Readability	Weighing capacity [Max]	Model	Price excl. of VAT ex works	Page	DAYS	M	CAL EXT	RS 232	-√+ T0L	65	666 IP 67	666 IP 68	BATT	ACCI
[d] g	lwaxj kg	KERN	ex works €			For	an exp	lanatio	n on the	pictos,	see th	e front	flap	
D, 1	0,5	FOB 0.5K-4NS	125,-	71	1		•			•			•	
),1	0,5	FOB 500-1S	90,-	71	1		•						•	
,1	3	FCF 3K-4	220,-	69	1		•						•	0
,2	1,5	WTB 1K-4N	285,-	73	1		•		•	•				0
,2	1,5	FFN 1K-4N	325,-	74	1		•			•				•
,2	3	FOB 3K-4NL	330,-	72	1		•				•			
,5 ,5	1,5 1,5	FOB 1.5K0.5 WTB 1K-4NM	240,- 300,-	72 73	1	0	•		•	•				0
),5),5	1,5	FOB 1K-4LM	335,-	70	1		•		-	•				
,5 ,5	1,5	FFN 1K-4NM	340,-	74	1	0	•			•				•
,5	3	WTB 3K-4N	285,-	73	1		•		•	•				0
,5	3	FFN 3K0.5IPN	325,-	74	1		•			•				•
,5	3	FXN 3K-4N	460,-	75	1		•		•			•	•	
,5	6	SXC 6K-4	1300,-	76	1		•	0	•			•		0
,5 1	5 7,5	FOB 7K-4NL	295,-	72	1		•				•		•	
	3	FOB 3K1	240,-	72	1		•		•					С
	3	WTB 3K-3NM	300,-	73	1	0	•		•					С
	3	FOB 3K-3LM FFN 3K 1IPM	340,-	70 74	<u>1</u> 1	0	•		•	•			•	_
	3	FXN 3K-3M	340,- 490,-	75	<u>!</u> 1	0	•		•			•	•	_
	5	FOB 5K-3NS	125,-	75	1		•			•				
	5	FGE 5K-3S05	115,-	68	1		•						-	
	5	FOB 5K1S	90,-	71	1		•						•	
	6	WTB 6K-3N	285,-	73	1		•		•	•				C
	6	FFN 6K1IPN	325,-	74	1		•			•				•
	6	FXN 6K-3N	460,-	75	1		•		•			•	•	
	10	SFB 10K1HIP	850,-	78	1		•	0	•	•	•			•
	15	SXC 10K-3	1300,-	76	1		•	0	•			•		<u> </u>
	15	SXC 10K-3L	1350,-	76	1		•	0	•			•		
	15	FGE 10K-3S05	170,-	68	1		•						-	
1.2	30	FCF 30K-3	220,-	69 76	1	0	•	0				•	•	
2	3 6 8 15	SXC 6K-3M FOB 10K-3NL	1200,- 295,-	70	1		•				•			
4	6	FOB 6K2	240,-	72	1		•		•					
	6	WTB 6K-3NM	300,-	73	1	0	•		•	•				
	6	FOB 6K-3LM	335,-	70	1	0	•		•	•			•	
	6	FFN 6K2IPM	340,-	74	1	0	•			•				•
	6	FXN 6K-3M	490,-	75	1	0	•		•			•	•	
	15	WTB 10K-3N	285,-	73	1		•		•	•				C
	15	FFN 15K2IPN	325,-	74	1		•			•				•
	15	FXN 10K-3N	460,-	75	1		•		•			•	•	
	20	SFB 20K2HIP	850,-	78	1		•	0	•		•			
5	6 15	SXC 10K-3M	1200,-	76	1	0	•	0	•			•		<u> </u>
5	6 15	SXC 10K-3LM	1250,-	76 72	1	0	•	0	•		•	•		C
5	30	FOB 30K-3NL SXC 30K-3L	295,- 1350,-	76	1		•	0	•		•	•		
	30	SXC 30K-3L	1300,-	76	<u>'</u> 1		•	0	•			•		
	15	WTB 10K-3NM	300,-	73	1	0	•		•	•				
	15	FOB 10K-3LM	335,-	70	1	0	•		•	•			•	
	15	FFN 15K5IPM	340,-	74	1	0	•			•				(
	15	FXN 10K-3M	490,-	75	1	0	•		•			•	•	
	15	SFB 15K5HIPM	870,-	78	1	0	•	0	•	•	•			•
	25	FFN 25K5IPN	325,-	74	1		•			•				•
	30	WTB 30K-3N	285,-	73	1		•		•	•				
	30	FXN 30K-3N	460,-	75	1		•		•			•	•	
	50	SFB 50K-3XL	970,-	78 78	1		•	0	•	•	•			-
	50 50	SFB 50K5LHIP SFB 50K5HIP	820,- 850,-		1		•	0	•	•	•			
	60	SXC 60K-3L	1350,-	76	1		•	0	•			•		
	60	SXC 60K-3L	1300,-	76	1		•	0	•			•		
10	15 30	SXC 30K-3M	1200,-	76	1	0	•	0	•			•		
10	15 30	SXC 30K-3LM	1250,-	76	1	0	•	0	•			•		
)	25	FFN 25K10IPM	340,-	74	1	0	•			•				•
)	30	WTB 30K-2NM	300,-	73	1	0	•		•	•				
0	30	FXN 30K-2M	490,-	75	1	0	•		•			•	•	
)	30	SFB 30K10HIPM	870,-	78	1	0	•	0	•	•	•			(
0	100	SFB 100K-2XL	1430,-	78	1		•	0	•	•	•			
0	100	SFB 100K10HIP	880,-	78	1		•	0	•	•	•			
0	150	SXC 100K-2	1300,-	76	1		•	0	•			•		
0	150	SXC 100K-2L	1500,-	76	1							•		

Quick-Finder Food (kitchen/stainless steel/IP65...68 protection)

Readability	Weighing capacity	Model	Price excl. of VAT	Page	DAYS	M	CAL EXT	RS 232	-√+ TOL	665	666 IP 67		ACCU
[d] g	[Max] kg	KERN	ex works €			For	an exp	lanation	on the	pictos	, see th	e front flap	
10 20	30 60	SXC 60K-2M	1200,-	76	1	0	•	0	•			•	0
10 20	30 60	SXC 60K-2LM	1250,-	76	1	0	•	0	•			•	0
20	60	SFB 60K-2XLM	1130,-	78	1	0	•	0	•	•	•		•
20	60	SFB 60K20LHIPM	890,-	78	1	0	•	0	•	•	•		•
20 50	60 150	SXC 100K-2M	1200,-	76	1	0	•	0	•			•	0
20 50	60 150	SXC 100K-2LM	1400,-	76	1	0	•	0	•			•	0
20	300	SXC 300K-2	1600,-	76	1		•	0	•			•	0
50	150	SFB 100K-2LM	1210,-	78	1	0	•	0	•	•	•		•
50	150	SFB 100K-2XLM	1450,-	78	1	0	•	0	•	•	•		•
50	150	SFB 100K-2HM	910,-	78	1	0	•	0	•	•	•		•
50 100	150 300	SXC 300K-2M	1500,-	76	1	0	•	0	•			•	0

News 2024 ● Standard ○ Option

















1 FGE 5K-3S05

2 FGE 10K-3S05

Precise design kitchen scale for kitchen, cafetaria, gastronomy

Features

- KERN FGE 10K-3S05: Weighing plate made out of safety glass
- · Easy and hygienic cleaning
- · Low overall height for secure footing and space-saving storage
- · Secure and non-slip positioning with rubber feet
- · Very easy to use
- **1** FGE 5K-3S05: 2 Buttons
- 2 FGE 10K-3S05: 1 Button
- Comfortable taring with just one keystroke. For example, you can tare a bowl before starting a formulation. In addition, you can tare each time you weigh in a formulation ingredient, so that you can weigh in the next formulation ingredient with the weight indicated in the formula without having to do any calculations
- Integrated AUTO-OFF function to preserve the batteries
- · Large high-contrasted display that is easy to read
- 3 Delivered in single design packaging

Technical data

II FGE 5K-3S05

- · Large backlit LCD display, Digit height 18 mm
- · Weighing plate dimensions, acrylic, W×D 152×230 mm
- Overall dimensions W×D×H 152×230×15 mm
- Ready for use: Batteries included, 2×CR2032

2 FGE 10K-3S05

- · Large, luminescent LED segments display, Digit height 22 mm
- · Weighing plate dimensions, glass, W×D 272×205 mm
- Overall dimensions W×D×H 272×250×22 mm
- Ready for use: Batteries included, 3×1.5 V AA
- · Note: The models are delivered in a set of 5 units. i.e. the price given in the table refers to 5 items. Cannot be delivered individually. The calibration prices refers to one single balance















Model	Weighing capacity	Readability	Price excl. of VAT	Options DAkkS Calibr. Certificate		
KERN	[Max] kg	[d] g	ex works €	DAkkS KERN	€	
FGE 5K-3S05	5	1	115,-	963-127	98,-	
FGE 10K-3S05	15	1	170,-	963-128	118,-	







Compact bench scale with multi-purpose functionality and a high level of accuracy for use in industry, gastronomy and kitchen

Features

- · Ideal as a
- Checkweigher in the catering trade, cafeterias, school kitchens
- compact letter and parcel scale, especially in constricted spaces
- grading or commissioning balance or simple checkweigher in production or dispatch
- Simple and convenient 5-key operation
- · Very fast display: steady weight values within 3 s
- · High mobility: Thanks to battery operation/ rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department, etc.)
- Protective working cover included with delivery

Technical data

- · Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 253×228 mm
- Overall dimensions W×D×H 270×345×106 mm
- · Optional battery operation, 9 V block not included in scope of delivery, operating time up to 20 h, AUTO-OFF function to preserve the battery
- Net weight approx. 2,8 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- · Protective working cover, scope of delivery 5 items, KERN FCF-A01S05, € 44,-
- · Internal rechargeable battery pack, operating time up to 120 h without backlight, charging time approx. 16 h, KERN GAB-A04, € 42,-

STANDARD





























Model	Weighing capacity [Max]	Readability	Reproducibility	Linearity	Smallest part weight (Normal)	Price excl. of VAT ex works	Option: DAkkS Calibr. C DAkkS	
KERN	kg	g	g	g	g/piece	€	KERN	€
FCF 3K-4	3	0,1	0,1	± 0,3	2	220,-	963-127	98,-
FCF 30K-3	30	1	1	± 3	20	220,-	963-128	118,-











Compact stainless steel bench scale with special checkweighing display for even more efficient working, verification optional

Features

- 11 Innovative weighing with tolerance range (Checkweighing): The colour of the display changes depending on the weight (too light/ok/ too heavy) and is an aid to help with portioning, dosing and grading
- · Thanks to the stainless steel design of the housing and platform with smooth surface, the scale is rust-free and easy to clean
- 2 Ideal for the increased hygienic requirements in the food industries
- · High mobility: thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchens, sales offices, cafeterias, food industry laboratories, etc.)
- · Your support in a HACCP-compliant quality system
- · Protection against dust and water splashes IP65 (only when using battery)

- · Increased protection against humidity through waterproof silicone sealing of the load cell, electronics and soldering joints
- · Secure and non-slip positioning with rubber feet
- · Mains adapter included with the delivery
- · Protective working cover included with delivery

Technical data

- · Large backlit LCD display, digit height 25 mm
- · Dimensions weighing surface, stainless steel, W×D 248×198 mm
- Overall dimensions W×D×H 256×285×100 mm
- Battery operation, 4×1.5 V AA standard, operating time up to 48 h, AUTO-OFF function to preserve the battery
- · Net weight approx. 3,8 kg
- Permissible ambient temperature 0 °C/40 °C

Accessories

- 3 Protective working cover, scope of delivery 5 items, Protective working cover, scope of delivery 5 items, KERN FOB-A13S05, € 44,-
- Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02, € 75,-

Note: Official verification is mandatory for commercial trade



















Model	Weighing capacity	Readability	Verification value	Minimal load	Price excl. of VAT	•		Options DAkkS Calibr. C	ortificato
KERN	[Max] kg	[d] g	[e] g	[Min] g	ex works €	MIII KERN	€	DAKKS CAIIDI. C DAKKS KERN	ertilicate €
FOB 1K-4LM	1,5	0,5	0,5	10	335,-	965-227	65,-	963-127	98,-
FOB 3K-3LM	3	1	1	20	340,-	965-227	65,-	963-127	98,-
FOB 6K-3LM	6	2	2	40	335,-	965-228	84,-	963-128	118,-
FOB 10K-3LM	15	5	5	100	335,-	965-228	84,-	963-128	118,-





FOB-S FOB-NS

Compact stainless steel balance for weighing, checking and portioning in the smallest of spaces

Features

- Thanks to the stainless steel design of the housing and platform with smooth surface, the scale is rust-free and easy to clean
- High mobility: thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchen, sales office, cafeteria, food industry-laboratory etc.)
- Secure and non-slip positioning with rubber feet
- Protection against dust and water splashes IP65 (only when using battery)
- Your support in a HACCP-compliant quality system
- Particularly flat design
- Protective working cover included with delivery

Accessories

• External mains adapter, KERN YKA-46, € 45,-

FOB-S

Protective working cover, scope of delivery
 5 items, KERN FOB-A12SO5, € 44,-

FOB-NS

Protective working cover, scope of delivery
 5 items, KERN FOB-A11S05, € 44,-

















KERN	FOB 500-1S	FOB 5K1S	FOB 0.5K-4NS	FOB 5K-3NS		
Weighing capacity [Max] g	500	5000	500	5000		
Readability [d] g	0,1	1	0,1	1		
Display without backlight,	LC	D,	LCD,			
digit height	20 r	mm	20 1	20 mm		
Dimensions of weighing plate W×D mm	125×	:155	120×150			
Overall dimensions W×D×H	155×175	×40 mm	150×170×40 mm			
Batteries included with delivery	9 V B	llock	9 V Block			
Operating time up to	20	h	20 h			
Net weight	0,70) kg	0,80 kg			
Permissible ambient	10.00	40 °C	10 °C - 35 °C	10 °C - 40 °C		
temperature	10 °C -	10 °C - 40 °C		10 'C - 40 'C		
Price, excl. of VAT, ex works, €	90,-		125,-			
Option DAkkS Calibr. Certificate	963-127	, € 98,-	963-127, € 98,-			





FOB FOB-NL

Compact stainless steel balance with large weighing range

Features

- FOB: Innovative weighing with tolerance range (Checkweighing): The colour of the display changes depending on the weight (too light/ok/ too heavy) and is an aid to help with portioning, dosing and grading
- · FOB-NL: Protection against dust and water splashes IP67 (only when using battery)
- · Thanks to the stainless steel design of the housing and platform with smooth surface, the scale is rust-free and easy to clean
- Increased protection against humidity through waterproof silicone sealing of the load cell, electronics and soldering joints

- · Your support in a HACCP-compliant quality system
- · Ideal for the increased hygienic requirements in the food industries
- · High mobility: Thanks to battery operation/ rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- · Secure and non-slip positioning with rubber feet

Accessories

• Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02, € 75,-

- Protective working cover, scope of delivery: 5 items, KERN FOB-A05S05, € 44,-
- · Internal rechargeable battery pack, operating time up to 24 h without backlight, charging time approx. 8 h, KERN FOB-A07, € 60,-

FOB-NL

- Protective working cover, scope of delivery 5 items, KERN FOB-A13S05, € 44,-
- External mains adapter, KERN YKA-29, € 43,-

















OPTION	
_#	DAkkS
230 V	+3 DAYS

KERN	FOB 1.5K0.5	FOB 3K1	FOB 6K2	FOB 3K-4NL	FOB 7K-4NL*	FOB 10K-3NL*	FOB 30K-3NL*		
Weighing capacity [Max] kg	1,5	3	6	3	5 7,5	8 15	16 30		
Readability [d] g	0,5	1	2	0,2	0,5 1	1 2	2 5		
LCD display backlight, digit height yes,				no, 25 mm	yes 25 mm				
Dimensions of weighing plate W×D mm	1/5x165			252×200					
Overall dimensions W×D×H mm	I dimensions W×D×H mm 235×175×55 243×183×54			285×255×90					
Power supply included with delivery	Power supply			Battery, 4×1.5 V AA operating time up to 48 h					
Net weight	1,8 kg 2,0 kg			3,8 kg					
Permissible ambient temperature	5 °C - 35 °C			5 °C – 35 °C					
Price, excl. of VAT, ex works, €	240,-	240,-	240,-	330,-	295,-	295,-	295,-		
Option DAkkS Calibr. Certificate	963-127, € 98,-	963-127, € 98,-	963-128, € 118,-	963-127, € 98,-	963-128, € 118,-	963-128, € 118,-	963-128, € 118,-		

^{*}Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].









Ideal for food industry, thanks to its IP65 protection and special checkweighing display, verification optional

Features

- Ideal for the increased hygienic requirements in the food industries
- Your support in a HACCP-compliant quality system
- Protection against dust and water splashes
 IP65 (only when using rechargeable battery pack)
- Very fast display: steady weight values within 2 s
- 2 Second display on the back of the balance
- Compact size, practical for small spaces
- Innovative weighing with tolerance range (Checkweighing): The colour of the display changes depending on the weight (too light/ok/ too heavy) and is an aid to help with portioning, dosing and grading

- High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- Recessed grips on the underside of the scale for easy transportation
- · Protective working cover included with delivery

Technical data

- · Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D $263\times203~\text{mm}$
- Overall dimensions W×D×H 286×316×126,5 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery
 5 items, KERN RFB-A01S05, € 44,-
- Internal rechargeable battery pack, operating time up to 50 h without backlight, charging time approx. 12 h, KERN WTB-A01N, € 38,-
- Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02, € 75,-

STANDARD



WTB 30K-3N















Model	Weighing capacity	Readability	Verification value	Minimal load	Price excl. of VAT	Verifica	tion	Options DAkkS Calibr. C	ortificato
KERN	[Max] kg	[d] g	[e]	[Min] g	ex works €	MIII KERN	€	DAKKS CAIIDI. C DAKKS KERN	€
WTB 1K-4N	1,5	0,2	-	-	285,-	-	-	963-127	98,-
WTB 3K-4N	3	0,5	-	-	285,-	-	-	963-127	98,-
WTB 6K-3N	6	1	-	-	285,-	-	-	963-128	118,-
WTB 10K-3N	15	2	=	=	285,-	-	-	963-128	118,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

	The initial vermoation i	o not possible alter	achivery. I leade hine	ini tiic ian aaarco	or the location	11 01 000 101 11	ic illicial ve	illioution.	
WTB 3K-3NM	3	1	1	20	300,-	965-227	65,-	963-127	98,-
WTB 1K-4NM	1,5	0,5	0,5	10	300,-	965-227	65,-	963-127	98,-
WTB 6K-3NM	6	2	2	40	300,-	965-228	84,-	963-128	118,-
WTB 10K-3NM	15	5	5	100	300,-	965-228	84,-	963-128	118,-
WTB 30K-2NM	30	10	10	200	300	965-228	84	963-128	118

118,-









All-round bench scale, protected by stainless steel and IP65 rating, verification optional

Features

- 11 Ideal for the ever-increasing hygienic requirements in the food, pharmaceutical and chemical industries
- · Your support in a HACCP-compliant quality system
- 2 Ideal for the robust industrial applications
- 3 Protection against dust and water splashes IP65 (only when using rechargeable battery pack)
- · High mobility: thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchens, sales offices, cafeterias, food industry laboratories, etc.)
- · Thanks to the stainless steel design of the housing and platform with smooth surface, the scale is rust-free and easy to clean
- · Recessed grips on the underside of the scale for easy transportation

Technical data

- · Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 233×193 mm
- Overall dimensions W×D×H 243×300×127 mm
- · Rechargeable battery pack integrated, as standard, operating time up to 50 h without backlight, charging time approx. 12 h
- Net weight approx. 4,0 kg
- Permissible ambient temperature: -10 °C/40 °C

Accessories

· Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02, € 75,-

STANDARD

















Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Price excl. of VAT ex works	Verifica	ition	Options DAkkS Calibr. C DAkkS	ertificate
KERN	kg	g	g	g	€	KERN	€	KERN	€
FFN 1K-4N	1,5	0,2	_	-	325,-	-	-	963-127	98,-
FFN 3K0.5IPN	3	0,5	-	-	325,-	-	-	963-127	98,-
FFN 6K1IPN	6	1	=	-	325,-	-	-	963-128	118,-
FFN 15K2IPN	15	2	-	-	325,-	-	-	963-128	118,-
FFN 25K5IPN	25	5	_	-	325,-	-	-	963-128	118,-

FFN 1K-4NM	1,5	0,5	0,5	10	340,-	965-227	65,-	963-127	98,-
FFN 3K1IPM	3	1	1	20	340,-	965-227	65,-	963-127	98,-
FFN 6K2IPM	6	2	2	40	340,-	965-228	84,-	963-128	118,-
FFN 15K5IPM	15	5	5	100	340,-	965-228	84,-	963-128	118,-
FFN 25K10IPM	25	10	10	200	340,-	965-228	84,-	963-128	118,-







Bench scale, protected by stainless steel and protection type IP68, verification optional

Features

- Ideal for the increased hygienic requirements in the food industries
- Your support in a HACCP-compliant quality system
- · Ideal for the robust industrial applications
- Thanks to the stainless steel design of the housing and platform with smooth surface, the scale is rust-free and easy to clean
- Dust and splash water protection type IP68.
 Therefore very robust and durable. Ideal for rough environmental conditions. Even immersion of the scale in water possible
- Very fast display: steady weight values within 2 s
- High mobility: thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations (kitchens, sales offices, cafeterias, food industry laboratories, etc.)

- Recessed grips on the underside of the scale for easy transportation
- Weighing with tolerance range (checkweighing):
 a visual and audible signal helps with portioning,
 dispensing or grading

Technical data

- Large backlit LCD display, digit height 25 mm
- Dimensions weighing surface, stainless steel, W×D 236×195 mm
- Ready for use: Batteries standard, 4×1.5 V Size D, operating time approx. 500 h, AUTO-OFF function to preserve the battery
- Net weight approx. 3,4 kg
- Permissible ambient temperature -10 $^{\circ}\text{C}/40~^{\circ}\text{C}$

Accessories

 ■ Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02, € 75,-

Note: Official verification is mandatory for commercial trade

STANDARD



















Model	Weighing capacity	Readability	Verification value	Minimal load	Smallest part weight	Price excl. of VAT	Verifica	ition	Options DAkkS Calibr. 0	artificate
KERN	[Max] kg	[d] g	[e] g	[Min]	(Normal) g/piece	ex works €	MIII KERN	€	DAKKS DAKKS KERN	€
FXN 3K-4N	3	0,5	-	_	5	460,-	-	-	963-127	98,-
FXN 6K-3N	6	1	-	-	10	460,-	-	-	963-128	118,-
FXN 10K-3N	15	2	-	-	20	460,-	-	-	963-128	118,-
EXN 30K-3N	30	5	_	_	50	460 -	_		963-128	118 -

FXN 3K-3M	3	1	1	20	5	490,-	965-227	65,-	963-127	98,-
FXN 10K-3M	15	5	5	100	20	490,-	965-228	84,-	963-128	118,-
FXN 6K-3M	6	2	2	40	10	490,-	965-228	84,-	963-128	118,-
FXN 30K-2M	30	10	10	200	50	490,-	965-228	84,-	963-128	118,-











Interlinked for industry of the future: Stainless steel platform scale with up to four data interfaces and optional alibi memory, also with optional verification

Features

- · Ideal for the robust industrial applications
- · Platform: made entirely of stainless steel, hermetically welded stainless steel load cell with protection against dust and water splashes IP68
- Display device: stainless steel, dust and splash water protection IP68, integrated power supply
- Ideal for the increased hygienic requirements in the food industries
- · Superior display size: digit height 48 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- · Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- · Industry 4.0: The exchange of data and control commands is optional using up to four interfaces to suit individual requirements: two wired connections (RS 232, Ethernet, USB or analogue module) and two wireless connections (WiFi, Bluetooth)

- Each interface can be set up separately, e.g.:
- Interface 1 (WiFi): Continuous sending to a PC for documentation of a process
- Interface 2 (RS-232): Print stable weight
- Interface 3 (analogue module): Controlling a device when the target weight is reached
- Interface 4 (Bluetooth): Continuous sending to a tablet to monitor a process
- Data query and remote control of the balance using a computer or CRM/ERP systems using the KERN Communication Protocol (for details see page 20/21)
- · Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further

Technical data

- · Large backlit LCD display, digit height 48 mm
- · Weighing plate dimensions, stainless steel
- A W×D×H 300×240×104 mm
- **B** W×D×H 400×300×115 mm
- C W×D×H 400×300×115 mm
- **□** W×D×H 500×400×117 mm, see larger picture
- W×D×H 650×500×136 mm
- · Dimensions of display device W×D×H 232×150×80 mm
- · Cable length of display device approx. 2,5 m
- Permissible ambient temperature -10 °C/40 °C







*Note: only two wired connections (RS-232, Ethernet, USB or analogue module) and two wireless connections (WiFi, Bluetooth) can be used at the same time

Accessories

- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, € 35,-
- Stand to be screwed onto the platform Height of stand approx. 330 mm,
 KERN SXC-A01, € 95,-
 - Height of stand approx. 600 mm, KERN SFB-A01, € 110,-
- Internal data interface RS-232, interface cable included, KERN KUM-01, € 120,-
- Internal data interface USB, interface cable included, KERN KUM-03, € 120,-
- Internal data interface Ethernet, interface cable included, KERN KUM-04, € 165,-
- Internal data interface WiFi,
 KERN KUM-05, € 95,-
- Internal data interface Bluetooth,
 KERN KUM-06, € 135,-
- Analogue module, KERN KUM-08, € 145,-

- Memory module with real time clock (alibi memory), KERN YMM-06, € 160,-
- ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01, € 60,-
- Signal lamp for visual support of weighing with tolerance range (only in combination with Data interface RS-232 KERN KUM-01), KERN CFS-A03, € 310,-
- Roller conveyor attachment, with smooth-running, hot-dip galvanised steel rollers with ball bearings, robust aluminium profile frame for models
 ≥ 30 kg [Max] with weighing plate size
- B C KERN YRO-01, € 830,-
- **D** KERN YRO-02, € 870,-
- **I** KERN YRO-03, € 1200,-
- Further details, plenty of further accessories and suitable printers see Accessories

STANDARD

OPTION

FACTORY

FACTORY

DARKS

ET +3 DAYS

ALIBI RS 232

USB BT WIFI ANALOG LAN ACCU +3 DAYS

ANALOG LAN ACCU +3 DAYS

ANALOG LAN ACCU +3 DAYS

Model		Weighing capacity [Max]	Read- ability [d]	Verification value [e]	Minimal load [Min]	Net weight approx.	Weighing plate	Price excl. of VAT ex works	Verifica	ition	Options DAkkS Calibr. C	ertificate
KERN		kg	g	g	g	kg		€	MIII KERN	€	DAkkS KERN	€
SXC 6K-4	NEW	6	0,5	-	_	6	Α	1300,-	-	-	963-128	118,-
SXC 10K-3	NEW	15	1	-	-	7	Α	1300,-	-	-	963-128	118,-
SXC 10K-3L	NEW	15	1	-	-	12	В	1350,-	-	-	963-128	118,-
SXC 30K-3	NEW	30	2	-	-	12	C	1300,-	-	-	963-128	118,-
SXC 30K-3L	NEW	30	2	-	-	22	D	1350,-	-	-	963-128	118,-
SXC 60K-3	NEW	60	5	-	-	12	C	1300,-	-	_	963-129	146,-
SXC 60K-3L	NEW	60	5	-	-	22	D	1350,-	-	-	963-129	146,-
SXC 100K-2	NEW	150	10	-	-	24	D	1300,-	-	_	963-129	146,-
SXC 100K-2L	NEW	150	10	-	-	34	E	1500,-	-	-	963-129	146,-
SXC 300K-2	NEW	300	20	-	-	36	E	1600,-	-	-	963-129	146,-

Multi-range balance with high-resolution display, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range

SXC 6K-3M	3 6	1 2	1 2	20 40	6	Α	1200,-	965-228	84,-	963-128	118,-
SXC 10K-3M	6 15	2 5	2 5	40 100	7	Α	1200,-	965-228	84,-	963-128	118,-
SXC 10K-3LM	6 15	2 5	2 5	40 100	12	В	1250,-	965-228	84,-	963-128	118,-
SXC 30K-3M	15 30	5 10	5 10	100 200	12	C	1200,-	965-228	84,-	963-128	118,-
SXC 30K-3LM	15 30	5 10	5 10	100 200	22	D	1250,-	965-228	84,-	963-128	118,-
SXC 60K-2M	30 60	10 20	10 20	200 400	12	C	1200,-	965-229	110,-	963-129	146,-
SXC 60K-2LM	30 60	10 20	10 20	200 400	22	D	1250,-	965-229	110,-	963-129	146,-
SXC 100K-2M	60 150	20 50	20 50	400 1000	24	D	1200,-	965-229	110,-	963-129	146,-
SXC 100K-2LM	60 150	20 50	20 50	400 1000	34	E	1400,-	965-229	110,-	963-129	146,-
SXC 300K-2M	150 300	50 100	50 100	1000 2000	36	E	1500,-	965-229	110,-	963-129	146,-



Stainless steel platform scales with IP65/67 protection, also with XL platform or optional verification

Features

- · Ideal for the robust industrial applications
- 11 Display device: stainless steel, protection against dust and water splashes IP65, (only when using rechargeable battery pack)
- 2 Platform: made entirely of stainless steel, silicone-coated Stainless Steel load cell, protection against dust and water splashes IP67
- I KERN SFB-H: Column, standard, for models with weighing plate size
- A Height of stand approx. 200 mm
- B Height of stand approx. 400 mm

Technical data

- · Large backlit LCD display, digit height 52 mm
- · Dimensions of display device W×D×H 266×165×96 mm
- · Weighing plate dimensions W×D×H, stainless steel
 - A 300×240×104 mm B 400×300×115 mm
- © 500×400×117 mm D 650×500×136 mm
- · Rechargeable battery pack integrated, as standard, operating time up to 35 h without backlight, charging time approx. 12 h
- Permissible ambient temperature -10 °C/40 °C





Accessories

- 4 KERN SFB: Stand to be screwed onto the platform, height of stand approx. 600 mm, KERN SFB-A01, € 110,-
- · Data interface RS-232, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01, € 225,-
- · Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, KERN KFB-A03, € 160,-
- · Analogue module, must be ordered at purchase 0-10 V: KERN KFB-A04, € 170,-
- 4-20 mA: KERN KFB-A05, € 170,-
- · Further details, plenty of further accessories and suitable printers see Accessories

Please note: only one optional interface can be fitted for each device

STANDARD











































Model	Weighing capacity	Read- ability	Verification value	Minimal load	Weighing plate	Net weight approx.	Price excl. of VAT	Verifica	ition	Options DAkkS Calibr. C	ertificate
	[Max]	[d]	[e]	[Min]		kg	ex works	MIII		DAkkS	
KERN	kg	g	g	g			€	KERN	€	KERN	€
SFB 50K-3XL	50	5	-	-	C	14	970,-	-	-	963-128	118,-
SFB 100K-2XL	100	10	-	-	D	24	1430,-	-	-	963-129	146,-
				3	with elevated	l display	•				
SFB 10K1HIP	10	1	-	-	А	8	850,-	-	-	963-128	118,-
SFB 20K2HIP	20	2	-	-	А	8	850,-	-	-	963-128	118,-
SFB 50K5HIP	50	5	-	-	А	8	850,-	-	-	963-128	118,-
SFB 50K5LHIP	50	5	-	-	В	10	820,-	-	-	963-128	118,-
SFB 100K10HIP	100	10	_	_	В	10	880	-	_	963-129	146,-

SFB 60K-2XLM	60	20	20	400	C	14	1130,-	965-229	110,-	963-129	146,-
SFB 100K-2LM	150	50	50	1000	С	14	1210,-	965-229	110,-	963-129	146,-
SFB 100K-2XLM	150	50	50	1000	D	24	1450,-	965-229	110,-	963-129	146,-
				3 v	vith elevated	display					
SFB 100K-2HM	150	50	50	1000	В	10	910,-	965-229	110,-	963-129	146,-
SFB 15K5HIPM	15	5	5	100	Α	8	870,-	965-228	84,-	963-128	118,-
SFB 30K10HIPM	30	10	10	200	Α	8	870,-	965-228	84,-	963-128	118,-
SFB 60K20LHIPM	60	20	20	400	В	10	890,-	965-229	110,-	963-129	146,-



PRICE COMPUTING SCALES

Price computing scales are used wherever the price of goods is calculated dependent on the weight of the goods. These scales are subject to obligatory verification (> Verification) in accordance with European Directive 2014/31/EU. Usually, these are verification class (scales)

KERN mobile retail scales are compact in size and therefore save space on the sales counter. Thanks to the simple menu structure they are easy to use – saving time and money. Fitted with mains or rechargeable batteries as standard, price computing scales can be used in retail shops as well as on mobile sales stalls.

All price computing scales from KERN have three displays showing you all important information at a glance:

- Weight display in kg (verifiable)
- Unit price in €/kg or €/100 g
- Total price in €

NOTE: The KERN RFE range also displays the TARE or PRE-TARE value, which enables this value to be stored in a legally binding way in accordance with the Weights and Measures Act.

All KERN retail scales have direct access keys for memories (* PLU), the sales item with the relevant price can be stored against these PLU. In this way, frequently used sales items can called up at lightning speed. This accelerates customer service and reduces waiting times.

► See the Glossary

Quick-Finder Price Computing Scales

Readability	Weighing capacity [Max]	Model	Price excl. of VAT ex works	Page	DAYS	M	CAL EXT	RS 232	MEMORY	ACCU
[d] g	[Max] kg	KERN	ex works €		For an	explanati	on on the	pictos, s	see the fr	ont flap
0,5 1	1,5 3	RPB 3K3DM	265,-	81	1	0	•	•	•	0
0,5 1	1,5 3	RPB 3K3DHM	285,-	81	1	0	•	•	•	0
1 2	3 6	RIB 6K-3M	255,-	80	1	0	•		•	0
1 2	3 6	RIB 6K-3HM	305,-	80	1	0	•		•	0
1 2	3 6	RPB 6K1DM	265,-	81	1	0	•	•	•	0
1 2	3 6	RPB 6K1DHM	285,-	81	1			•	•	0
2 5	6 15	RIB 10K-3M	255,-	80	1	0	•		•	0
2 5	6 15	RIB 10K-3HM	305,-	80	1	0	•		•	0
2 5	6 15	RPB 15K2DM	265,-	81	1	0	•	•	•	0
2 5	6 15	RPB 15K2DHM	285,-	81	1		•	•	•	0
5 10	15 30	RIB 30K-2M	255,-	80	1		•		•	0
5 10	15 30	RIB 30K-2HM	305,-	80	1	0	•		•	0
5 10	15 30	RPB 30K5DM	265,-	81	1	0	•	•	•	0
5 10	15 30	RPB 30K5DHM	285,-	81	1	0	•	•	•	0

Standard ○ Option











Robust retail scale with large item memory and user-friendly handling, verification optional

Features

- 1 KERN RIB-HM: Elevated display backlit, height of stand approx. 405 mm
- 2 KERN RIB-M: Second display on the back of the balance
- Three displays for weight display (verifiable), unit price, total price
- 10 direct price keys for frequently recurring article prices
- Memory (PLU) for 20 article prices
- · Energy management: Backlight turns off after 5 sec, can be switched off
- · Soil-resistant construction through water channels at the frame of the housing and sealing rings over the upper housing inlets
- · Protective working cover included with delivery

Technical data

- · Large backlit LCD displays, digit height 18 mm
- · Weighing plate dimensions, stainless steel, W×D 294×225 mm
- · Overall dimensions W×D×H KERN RIB-M: 325×340×115 mm KERN RIB-HM: 325×340×405 mm
- · Net weight KERN RIB-M: approx. 3,2 kg KERN RIB-HM: approx. 3,8 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover, scope of delivery 5 items, KERN RIB-A01S05, € 44,-
- Internal rechargeable battery pack, operating time up to 80 h without backlight, charging time approx. 14 h, KERN GAB-A04, € 42,-
- 3 Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02, € 75,-

Application examples

- · retail shops
- Weekly markets
- · farm shops
- pick your own fruit and vegetable sales Note: Official verification is mandatory for commercial trade















Model	Weighing capacity	Readability	Verification	Minimal load	Price			Options	
KERN	[Max] kg	[d] g	value [e] g	[Min] g	excl. of VAT ex works €	Verifica	ition €	DAkkS Calibr. C DAkkS	ertificate €
	Multi-range balance, v					KERN g range [Ma:		KERN adout [d]	
		•		he balance switches			.,		
RIB 6K-3M	3 6	1 2	1 2	20 40	255,-	965-228	84,-	963-128	118,-
RIB 10K-3M	6 15	2 5	2 5	40 100	255,-	965-228	84,-	963-128	118,-
RIB 30K-2M	15 30	5 10	5 10	100 200	255,-	965-228	84,-	963-128	118,-
			with el	evated display					
RIB 6K-3HM	3 6	1 2	1 2	20 40	305,-	965-228	84,-	963-128	118,-
RIB 10K-3HM	6 15	2 5	2 5	40 100	305,-	965-228	84,-	963-128	118,-
RIB 30K-2HM	15 I 30	5 I 10	5 I 10	100 200	305	965-228	84	963-128	118



Retail scale with memories for 10 item prices with checkout dialogue 06

Features

STANDARD

- · Modern, ergonomic design and a housing which is even more compact, supporting efficient
- 1 KERN RPB-HM: Elevated display backlit, revol-
- 2 KERN RPB-M: Second display on the back of the balance
- unit price, total price
- · Memory (PLU) for 10 article prices
- Unit price can be switched from €/kg to €/100 g
- · Auto-clear-key: Unit price entry is automatically set to zero when scale is unloaded
- 3 High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- · Protective working cover included with delivery

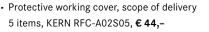
- · Large backlit LCD displays, digit height 15 mm
- · Weighing plate dimensions, stainless steel, W×D 204×263 mm
- · Overall dimensions W×D×H KERN RPB-M: 283×318×100,3 mm KERN RPB-HM: 283×375,5×486,8 mm
- · Net weight KERN RPB-M: approx. 2,8 kg KERN RPB-HM: approx. 3,2 kg

FACTORY

M

• Permissible ambient temperature -10 °C/40 °C

Accessories



Checkout Dialog 06: This dialog describes the communication procedure between a checkout scale in customer traffic and a freely programmable POS system, consisting of POS hardware and software. The aim of the Checkout Dialog 06 is to make manipulation of the data streams by

third parties in principle impossible in freely

programmable POS systems. Note: Other protocols on request.

- · Internal rechargeable battery pack, operating time up to 60 h without backlight, charging time approx. 12 h, KERN WTB-A01N, € 38,-
- · Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02, € 75,-
- · Further details, plenty of further accessories and suitable printers see Accessories

Application examples

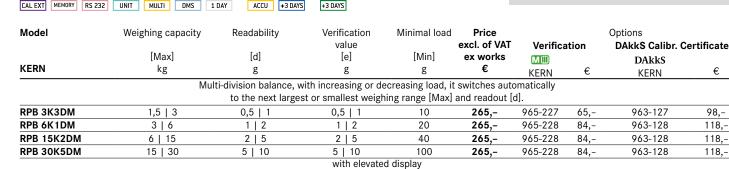
- · retail shops
- · Weekly markets
- · farm shops
- · pick your own fruit and vegetable sales Note: Official verification is mandatory for commercial trade

Technical data

OPTION

DAkkS

- operation and saving space
- ving on column, height of stand approx. 480 mm
- · Three displays for weight display (verifiable),



RPB 3K3DHM 1,5 | 3 0,5 | 1 0,5 | 1 285,-965-227 65,-963-127 **RPB 6K1DHM** 20 285,-965-228 84.-963-128 118.-3 | 6 1 | 2 1 | 2 RPB 15K2DHM 6 | 15 2 | 5 2 | 5 40 285, 965-228 963-128 118,-84. RPB 30K5DHM 5 | 10 965-228 963-128 15 | 30 5 | 10 100 118.-285. 84.-Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

10

98.-



IN THE HERE AND NOW



Today the company is in the eighth generation of its story, and is wholly informed and up to speed: with products which can be networked and tailor-made for you, specialised software and a fully-automated high-bay warehouse. The only way in which we will be able to continue to write this success story is with ongoing innovation, further development and sustainable management.

Digital and interconnected

Nowadays it is becoming increasingly common for measuring and weighing data to be transferred directly from the balance or measuring device to the computer for processing. Weighing, counting and measuring results are shown in stock entries and on delivery notes. We are taking this development into account through products which can be integrated into company networks in a simple and straightforward manner. And the accompanying software is also becoming more important, to meet individual customer requirements.

Made to measure

Our range now covers around 5,000 products and a myriad of services. Nevertheless, there are often requests for an individual, tailor-made solution. Our Customized Solution Service (CUSOS) will develop this for you at our premises in Balingen. For more information, please see page 146/147. In our development department at our Balingen site, market feedback and ideas are also fed into our product development which go above and beyond individual customer requests.

Highly automated, quick service for customers

A 25 metre high (3 metres of which are underground) and 22 \times 90 metre wide, fully-automated high-bay warehouse ensures a high level of availability and rapid dispatch of products all around the world. It accommodates approx. 80,000 packages and 3,500 pallets. On a daily basis, between 500 and 800 packages and between 30 and 50 pallets leave the warehouse. It was built in 2014, and will soon reach its limits, however.



Martin Sauter, Senior Managing Director

Albert Sauter, Managing Director

Sustainable

We are already heating and cooling our modern industrial buildings in a largely climate-neutral way using geothermal power. The work on the roof of our high-bay warehouse is now complete and our photovoltaic system has been successfully installed. By doing this we have reached a significant milestone in our sustainability strategy.

With an impressive output of 244.36 kWp the system could power 50 to 60 family homes. The solar module's innovative east/west orientation enables the system to make optimum use of the solar energy. This not only saves considerable costs, but also significantly reduces CO_2 emissions. We are proud to have made another step in the direction of a creating a greener and more sustainable future.

We focus on using recyclable materials in our packaging. By creating attractive and secure jobs, we are also making an important contribution to strengthening the economic power of the region.

Our story started over 250 years ago and it continues to move forward. Go back to page 6/7 to find out more about our history and look to the future with us on page 178/179!





COUNTING SCALES, COUNTING SYSTEMS

Interesting Facts about Counting

Smallest part weight for piece counting

This is the smallest piece weight the scale will accept for piece counting and will display it piece by piece. In practice, depending on the required accuracy, we recommend to choose a counting scale with a minimum piece weight smaller than the weight of the item to be counted. To make it easier for you to select the right model, we specify the smallest part weight when counting under laboratory conditions and normal conditions, see the website.

► Counting resolution

Describes the maximum quantity which can be counted with a counting accuracy of 1 %, with a minimum variation of item weights and a sufficiently large ► reference quantity (20 pieces with counting resolution ≤ 60,000 points, 50 pieces from 60,000–150,000 points, 100 pieces ≥ 150,000 points). This therefore is an indication of the quality of the counting scale.

Recommended ► reference quantity

Weight tolerances of pieces to be counted are the most significant sources of error when counting. Therefore, at the start of every counting procedure, establish an average weight, the so-called **reference weight**, by placing several pieces on the balance, the so-called reference quantity. Usually this would be:

5 pieces >> often sufficient

10 pieces >> common practise

20-100 pieces >> for large deviations among

piece weights

The "automatic ➤ reference optimisation" function increases the reference quantity gradually, whereby the average piece weight is optimised step by step. This contributes considerably to the accuracy of the subsequent counting processes.

Which Counting Scale for Which Application?

Simple counting scale

With self-explanatory user guidance on the keyboard. The graphic control panel enables you to start working immediately, without having to consult the user manual. Easy handling, value for money.

Professional counting scale

With 3 separate displays for reference weight (average weight of the pieces), total weight of all pieces and total quantity of all pieces. Very useful integrated memories, e.g. for container weight, item number, reference weight as well as audible and visual counting aids and an alphanumeric key pad for easy data entry.

Special tip for counting large quantities: Counting systems

The weighing capacities of bench counting scales are often not sufficient to count large quantities, units, palletized items, etc. In this case, high-performing counting systems come into operation, as these combine a high-precision reference scale with a high-capacity bulk scale.

► See the Glossary

Quick-Finder Counting Scales/Counting Systems

Readability [d]	Weighing- capacity [Max]	Smallest part weight (Normal)	Counting Resolution	Model	Price excl. of VAT ex works	Page	DAYS	M	CAL EXT	-√+ ⊙ Ϡ» TOL	MEMORY	RS 232		BATT	ACCU
g g	liviax] kg	g/piece	Points	KERN	ex works €		Fo	or an e	xplana	tion on	the pi	ctos, s	ee the	front fl	lap
0,001	0,3	0,05	60.000	CFS 300-3	510,-	90	1		•	•	•	•	•		0
0,001	0,36	0,02	180.000	CKE 360-3	395,-	91	1		•	•		0		•	0
0,001	6	0,05	1.200.000	CCS 6K-6	660,-	96	1		•	•	•	•			0
0,001	15	0,05	3.000.000	CCS 10K-6	740,-	96	1		•	•	•	•			0
0,01	3 6	0,2	300.000	CCA 6K-5M	1040,-	94	1	0	•	•	•	•			0
0,01	3	0,5	60.000	CFS 3K-5	395,-	90	1		•	•	•	•	•		0
0,01	3,6 6 15	0,2	180.000 750.000	CKE 3600-2 CCA 10K-5M	425,- 1040,-	91 94	1	0	•	•	•	0		•	0
0,01	15 30	0,2	1.500.000	CCA 30K-5M	1140,-	94	1		•	•	•	•			0
0,01	30 60	0,2	3.000.000	CCA 60K-5M	1150,-	94	1	0	•	•	•	•			0
0,01	30	0,5	600.000	CCS 30K0.01.	730,-	96	1		•	•	•	•			0
0,01	60 150	0,2	7.500.000	CCA 100K-5M	1300,-	94	1	0	•	•	•	•			0
0,01	60	0,5	1.200.000	CCS 60K0.01.	720,-	96	1		•	•	•	•			0
0,01	60	0,5	1.200.000	CCS 60K0.01L.	770,-	96	1		•	•	•	•			0
0,01	150	0,5	3.000.000	CCS 150K0.01	850,-	96	1		•	•	•	•			0
0,01	150	0,5	3.000.000	CCS 150K0.01L	1080,-	96	3		•	•	•	•			0
0,01	300	0,5	6.000.000	CCS 300K0.01	1170,-	96	3		•	•	•	•			0
0,02	4	0,2	200.000	CDS 4K0.02	690,-	93	1		•	•		0			0
0,02	6	0,2	300.000	CKE 6K0.02	550,-	91	1		•	•		0		•	0
0,05	8	0,5	160.000	CKE 8K0.05	500,-	91	1		•	•		0		•	0
0,05	15	0,5	300.000	CDS 15K0.05	600,-	93	1		•	•		0			0
0,05 0,1 0,2	16 3 6	0,5	320.000 60.000	CKE 16K0.05 IFS 6K-4S	610,-	91 92	1		•	•	•	0		-	0
0,1 0,2	6 15	2	75.000	IFS 10K-4	500,- 550,-	92	1		•	•	•	•			0
0,1 0,2	3 6	1	60.000	CCA 6K-4M	1000,-	94	2	0	•	•	•	•			0
0,1	6	1	60.000	CPB 6K0.1N	290,-	89	1		•		•	•	-		
0,1	6	1	60.000	CFS 6K0.1	340,-	90	1		•	•	•	•	•		0
0,1	15 30	1	300.000	CCA 30K-4M	1100,-	94	2	0	•	•	•	•			0
0,1	16	1	160.000	CKE 16K0.1	530,-	91	1		•	•		0			0
0,1	16	1	160.000	CDS 16K0.1	600,-	93	1		•	•		0			0
0,1	30 60	1	600.000	CCA 60K-4M	1100,-	94	2	0	•	•	•	•			0
0,1	30	1	300.000	CDS 30K0.1	670,-	93	1		•	•		0			0
0,1	30	1	300.000	CCS 30K0.1.	670,-	96	2		•	•	•	•			0
0,1	30	1	300.000	CDS 30K0.1L	1150,-	93	1		•	•		0			0
0,1	36	1	360.000	CKE 36K0.1	570,-	91	1		•	•		0		•	0
0,1	60 150	1	1.500.000	CCA 100K-4M	1250,-	94	2	0	•	•	•	•			0
0,1	60	1	600.000	CCS 60K0.1.	730,-	96	2		•	•	•	•			0
0,1	60	1	600.000	CCS 60K0.1L.	820,-	96	2		•	•			-		0
0,1	150	1	1.500.000	CCS 150K0.1.	760,-	96	2		•	•	•	•			0
0,1	150	1	1.500.000	CCS 150K0.1L	1095,-	96	3		•	•	•	•		-	0
0,1	300	1	3.000.000	CCS 300K0.1	1110,-	96	3 4**		•	•	•	•		-	0
0,1	600 1500	1	6.000.000 15.000.000	CCS 600K-1S CCS 1T-4S	1840,- 1740,-	96 96	4**		•	•	•	•	-		0
0,1	1500	1	15.000.000	CCS 1T-1U	1790,-	96	4**		•	-	•	•	-		0
0,1	1500	1	15.000.000	CCS 1T-4	2200,-	96	4**		•	•	•	•			0
0,1	1500	1	15.000.000	CCS 1T-1L	2750,-	96	4**		•	•	•	•			0
0,1	3000	1	30.000.000	CCS 3T-3L	2540,-	96	4**		•	•	•	•			0
0,2 0,5	12 30	5	60.000	IFS 30K0.2DL	610,-	92	1		•	•	•	•			0
0,2	3	1	30.000	CIB 3K-4	265,-	87	1		•	•	•				•
0,2	3	1	30.000	CXB 3K0.2	350,-	88	1		•		•				•
0,2	15	2	75.000	CFS 15K0.2	340,-	90	1		•	•	•	•	•		0
0,2	15	2,5	60.000	CPB 15K0.2N	290,-	89	1		•		•	•			0
0,2	36	2	180.000	CDS 36K0.2L	1150,-	93	1		•	•		0			0
0,2	60	2	300.000	CDS 60K0.2	1150,-	93	1		•	•		0			0
0,2	65	2	325.000	CKE 65K0.2	560,-	91	1		•	•		0		•	0
0,5 1	30 60	10	60.000	IFS 60K0.5D	610,-	92	1		•	•	•	•			0
0,5 1	30 60	10	60.000	IFS 60K0.5DL	780,-	92	1		•	•	•	•	-		0
0,5	6	2	30.000	CIB 6K-4	265,-	87	1		•	•	•				•
0,5 0,5	30	5	30.000 60.000	CXB 6K0.5 CPB 30K0.5N	350,-	88	1		•		•	•			0
	30	5			290,-	89			•	•	•	•	•		0
0,5	3 6	1	60.000	CFS 30K0.5 CPB 6K1DM	340,- 290,-	90 89	1	0	•		•	•			0
1 4	3 6	1	60.000	IFS 6K-3M	475,-	92	1	0	•	•	•	•			0
1 2	J U			IFS 6K-3SM	475,-	92	1		•	•	•	•			0
	3 6	1	00.000					_							
1 2	3 6 75 150	25	60.000				1		•	-	•	•			0
1 2	75 150	25	60.000	IFS 100K-3	860,-	92	1		•	•					0
1 2 1 2 1 2 1 2 1 2										•	•	•			
1 2	75 150 75 150	25 25	60.000 60.000	IFS 100K-3 IFS 100K-3L	860,- 1100,-	92 92	1		•	•	•	•			0

^{**} Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

[●] Standard ○ Option

Quick-Finder Counting Scales/Counting Systems

Readability	Weighing- capacity	Smallest part weight	Counting Resolution	Model	Price excl. of VAT	Page		M	i	-√ + ③ ③)				
[d]	[Max]	(Normal)	Resolution		ex works		DAYS		CAL EXT	TOL	MEMORY	RS 232	DUAL B	ATT ACCU
g	kg	g/piece	Points	KERN	€		Fo	r an e	kplanat	ion on	the pic	ctos, se	e the fror	nt flap
2 5	6 15	2	75.000	IFS 10K-3M	475,-	92	1	0	•	•	•	•		0
2 5	6 15	2	75.000	IFS 10K-3LM	560,-	92	1	0	•	•	•	•		0
2 5	6 15	2,5	60.000	CPB 15K2DM	290,-	89	1	0	•		•	•		0
2 5	150 300	50	60.000	IFS 300K-3	1100,-	92	1		•	•		•		0
2	6	2	30.000	CXB 6K2NM	380,-	88	1	0	•		•			•
2	30	10	30.000	CIB 30K-3	265,-	87	1		•	•				•
2	30	10	30.000	CXB 30K2	350,-	88	1		•		•			•
5 10	15 30	5	60.000	CPB 30K5DM	290,-	89	1	0	•		•	•		0
5 10	15 30	5	60.000	IFS 30K-3M	560,-	92	1	0	•	•	•	•		
5	15	5	30.000	CXB 15K5NM	380,-	88	1	0	•		•			•
10 20	30 60	10	60.000	IFS 60K-2M	570,-	92	1	0	•	•	•	•		
10 20	30 60	10	60.000	IFS 60K-2LM	710,-	92	1	0	•	•	•	•		0
10	30	10	30.000	CXB 30K10NM	380,-	88	1	0	•		•			•
20 50	60 150	25	60.000	IFS 100K-2M	710,-	92	1	0	•	•	•	•		0
20 50	60 150	25	60.000	IFS 100K-2LM	960,-	92	1	0	•	•	•	•		0
20 50	60 150	25	60.000	IFS 100K-2LM	960,-	92	1	0	•	•	•	•		0

^{**} Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

[●] Standard ○ Option









Robust counting scale with large article memory, convenient operating philosophy and checkweighing display, counting resolution up to 30,000 points

Features

- · Innovative counting with tolerance range (Checkweighing): The counting process can be supported visually and/or audibly and this therefore makes portion division, dispensing and grading easier
- Visual signal: the colour of the display changes depending on the counting result (not enough/ok/ too much)
- Audible signal: the frequency of the audible signal changes depending on the counting result (not enough/ok/too much)
- Ideal for workshops for people with disabilities, particularly loud or quiet environments, where operators change frequently, etc.
- · Three displays for weight display, reference weight, total pieces
- · Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Programmable using numerical key pad:
- Required reference quantity
- Known reference weight

- · Counting results memory: adds up all individual piece counts, result is shown in total weight and total pieces
- · PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- · 20 direct price keys for frequently recurring reference weights and PRE-Tare values
- · Memory for 50 reference weights and PRE-Tare values
- · High mobility: thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations
- · Two balances in one: Changes from counting mode to weighing mode at the touch of a key
- · Energy management: Backlight turns off after 5 sec, can be switched off
- · Protective working cover included with delivery

Technical data

- · Large backlit LCD displays, digit height 18 mm
- · Rechargeable battery pack integrated, as standard, operating time up to 160 h without backlight, charging time approx. 14 h
- · Dimensions weighing surface, stainless steel, W×D 315×215 mm
- Overall dimensions W×D×H, 350×330×120 mm
- · Net weight approx. 3,6 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover, scope of delivery 5 items, KERN RIB-A01S05, € 44,-
- · Internal rechargeable battery pack, operating time up to 160 h without backlight, charging time approx. 14 h, KERN GAB-A04, € 42,-

STANDARD























Model	Weighing capacity	Readability	Smallest part weight	Counting resolution	Price excl. of VAT	Option:	
KERN	[Max] kg	[d] g	(Normal) g/piece	Points	ex works €	DAkkS KERN	€
CIB 3K-4	3	0,2	1	30.000	265,-	963-127	98,-
CIB 6K-4	6	0,5	2	30.000	265,-	963-128	118,-
CIB 10K-3	15	1	5	30.000	265,-	963-128	118,-
CIB 30K-3	30	2	10	30.000	265,-	963-128	118,-





Entry level model into professional counting, counting resolution of 30,000 points, verification optional

Features

- · Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Programmable using numerical key pad:
- required reference quantity
- known reference weight
- Three displays for weight display (verifiable), reference weight, total pieces
- · Fill-to-target function: Target count or target weight can be programmed. When the target weight is reached there is an audible and visual signal
- 10 memories for reference weights
- · Counting results memory: adds up all individual piece counts, result is shown in total weight and total pieces

- · Integrated ESD protection, which makes it ideal for weighing small plastic parts
- Energy management: Backlight turns off after
- · PRE-TARE function for manual subtraction of a known container weight, useful for checking
- · Two balances in one: Changes from counting mode to weighing mode at the touch of a key
- · Protective working cover included with delivery

Technical data

- · Large backlit LCD displays, digit height 18 mm
- · Weighing plate dimensions, stainless steel, W×D 300×225 mm
- Overall dimensions W×D×H, 300×330×110 mm

- · Rechargeable battery pack integrated, as standard, operating time up to 200 h without backlight, charging time approx. 8 h
- · Net weight approx. 4,0 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN CXB-A01S05, € 44,-
- · Internal rechargeable battery pack, operating time up to 200 h without backlight, charging time approx. 8 h, KERN GAB-A04, € 42,-

Note: Official verification is mandatory for commercial trade

STANDARD





















A A		—			DAkkS	N
SUM	ACCU	230 V	DMS	1 DAY	+3 DAYS	+3 DA
						CXB-N

Model	Weighing capacity [Max]	Readability	Verification value [e]	Minimal load	I Smallest par weight (Normal)	0	Price excl. of VAT ex works	Verifica	ntion	Options DAkkS Calibr. C DAkkS	ertificate
KERN	kg	g	g	g	g/piece	Points	€	KERN	€	KERN	€
CXB 3K0.2	3	0,2	-	-	1	30.000	350,-	-	-	963-127	98,-
CXB 6K0.5	6	0,5	-	-	2	30.000	350,-	-	-	963-128	118,-
CXB 15K1	15	1	-	-	5	30.000	355,-	-	-	963-128	118,-
CXB 30K2	30	2	-	-	10	30.000	350,-	-	-	963-128	118,-

				, , , , , , , , , , , , , , , , , , ,							
CXB 3K1NM	3	1	1	20	1	30.000	380,-	965-227	65,-	963-127	98,-
CXB 6K2NM	6	2	2	40	2	30.000	380,-	965-228	84,-	963-128	118,-
CXB 15K5NM	15	5	5	100	5	30.000	380,-	965-228	84,-	963-128	118,-
CXB 30K10NM	30	10	10	200	10	30.000	380,-	965-228	84,-	963-128	118,-





Professional model, also with EC type approval [M], counting resolution up to 60,000 points

Features

- Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- · Programmable using numerical key pad:
- required reference quantity
- known reference weight
- · Three displays for weight display (verifiable), reference weight, total pieces
- · Counting results memory: adds up all individual piece counts, result is shown in total weight and total pieces
- Fill-to-target function: Target count or target weight can be programmed. When the target value is reached, this will be indicated by an audible signal
- · PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels

- · High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department, etc.)
- Two balances in one: Changes from counting mode to weighing mode at the touch of a key
- · Protective working cover included with delivery

Technical data

- · Large backlit LCD displays, digit height 20 mm
- · Weighing plate dimensions, stainless steel, W×D 295×225 mm
- Overall dimensions W×D×H, 315×350×100 mm
- · Net weight approx. 3,2 kg
- Permissible ambient temperature 0 °C/40 °C

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN CFS-A02S05, € 44,-
- · Internal rechargeable battery pack, operating time up to 90 h without backlight, charging time approx. 12 h, KERN GAB-A04, € 42,-
- II Signal lamp for visual support of weighing with tolerance range, KERN CFS-A03, € 310,-
- · Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, € 38,-
- Further details, plenty of further accessories and suitable printers see Accessories

Note: Official verification is mandatory for commercial trade

STANDARD



















Model	Weighing capacity	Readability	Verification value	Minimal load	Smallest part weight	Counting resolution		Verifica	ation	Options DAkkS Calibr. C	ertificate
KERN	[Max]	[d]	[e]	[Min]	(Normal)	Dointo	ex works	MIII	•	DAkkS	
KERIN	kg	g	g	g	g/piece	Points	€	KERN	€	KERN	€
CPB 6K0.1N	6	0,1	-	-	1	60.000	290,-	-	_	963-128	118,-
CPB 15K0.2N	15	0,2	-	-	2,5	60.000	290,-	-	-	963-128	118,-
CPB 30K0.5N	30	0,5	-	-	5	60.000	290,-	-	-	963-128	118,-
		Multi-di	vision balance	e, with incr	easing or decre	asing load, it	t switches auto	matically			
		;	to the next lar	gest or sm	nallest weighing	range [Max]	and readout [d].			
CPB 6K1DM	3 6	1 2	1 2	20	1	60.000	290,-	965-228	84,-	963-128	118,-
CPB 15K2DM	6 15	2 5	2 5	40	2,5	60.000	290,-	965-228	84,-	963-128	118,-
CPB 30K5DM	15 L 30	5 L 10	5 L 10	100	5	60.000	290 -	965-228	84 -	963-128	118 -







Professional, high-resolution counting scale with 100 item memories and second balance interface, counting resolution up to 75,000 points

Features

- · Memory (PLU) for 100 items with additional text, reference weight and tare weight, e.g. of a container
- Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- · Programmable using numerical key pad:
- required reference quantity
- known reference weight
- Three displays for weight display, reference weight, total pieces
- · Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading
- · Fill-to-target function: Programmable target quantity or target weight e.g. for checkweighing. A signal will be displayed when the target value is reached
- · PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels

- · Second balance interface to construct a highresolution counting system, standard, e.g. with weighing bridges of KERN KFP V20
- · Draught shield standard for models with weighing plate size A, weighing space W×D×H 155×141×80 mm
- · Protective working cover included with delivery, for models with weighing plate size A, B

Technical data

- · Large backlit LCD displays, digit height 20 mm
- · Dimensions weighing surface
- A Ø 80 mm
- B W×D 295×225 mm
- C W×D 370×240 mm
- · Overall dimensions W×D×H
- A 315×350×110 mm / 315×350×185 mm (incl. draught shield)
- B 315×350×100 mm
- C 370×360×100 mm
- Permissible ambient temperature 0 °C/40 °C

Accessories

- f A, f B: Protective working cover, scope of delivery: 5 items, KERN CFS-A02S05, € 44,-
- · Internal rechargeable battery pack, operating time up to 70 h without backlight, charging time approx. 14 h, KERN GAB-A04, € 42,-
- · Signal lamp for visual support of weighing with tolerance range, KERN CFS-A03, € 310,-
- Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, € 38,-
- Further details, plenty of further accessories and suitable printers see Accessories

STANDARD









































OPTION	
	DAkkS
ACCU	+3 DAYS

Model	Weighing capa- city [Max]	Readability [d]	Smallest part weight (Normal)	Counting resolution	Net weight approx.	Weighing plate	Price excl. of VAT ex works	Option DAkkS Calibr. C DAkkS	
KERN	kg	g	g/piece	Points	kg		€	KERN	€
CFS 300-3	0,3	0,001	0,05	60.000	2,6	A	510,-	963-127	98,-
CFS 3K-5	3	0,01	0,5	60.000	3,4	В	395,-	963-127	98,-
CFS 6K0.1	6	0,1	1	60.000	3,2	В	340,-	963-128	118,-
CFS 15K0.2	15	0,2	2	75.000	3,4	В	340,-	963-128	118,-
CFS 30K0.5	30	0,5	5	60.000	3,4	В	340,-	963-128	118,-
CFS 50K-3	50	1	10	50.000	4,4	C	395,-	963-128	118,-











Technical data

- · Large backlit LCD display, digit height 25 mm
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 20 h
- · Dimensions weighing surface
- A Ø 82 mm, plastic
- B W×D 130×130 mm, stainless steel
- C W×D 340×240 mm, stainless steel
- Overall dimensions W×D×H
- A 163×245×65 mm / 163×245×123 mm (incl. draught shield)
- B 163×245×65 mm
- C 350×390×120 mm
- Permissible ambient temperature -10 °C/40 °C

Easy to use, self-explanatory counting scale with laboratory accuracy, ideal for the various possibilities of Industry 4.0 applications, counting resolution up to 360.000 points

Features

- Self-explanatory, graphic control panel, the workings steps can be understood immediately, even without operating instructions
- no learning time = reduces costs
- ideal for untrained users
- visualised process avoids operating errors
- The 4 steps are carried out from left to right:
- Place the empty container onto the weighing plate and tare by pressing the TARE key
- Place the reference quantity for the goods to be counted into the container (5, 10, 20 or any number of pieces)
- Confirm the selected reference quantity by pressing the key (5, 10, 20 or any number of pieces)
- 4 Pour in the goods to be counted. The number of pieces will immediately be shown in the display

- Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such
 as, for example, RS-232, USB, Bluetooth, WiFi or
 Ethernet, for the exchange of data and control
 commands, without any installation outlay
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- Two balances in one: Changes from counting mode to weighing mode at the touch of a key
- Protective working cover included with delivery

Accessories

- A, B Protective working cover, scope of delivery:
 5 items, KERN YBA-A12S05, € 44,-
- • Protective working cover, scope of delivery 5 items, KERN FKB-A02S05, € 44,-
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, € 35,-
- External data interface RS-232, interface cable included, KERN KUP-01, € 60,-
- External data interface USB, interface cable included, KERN KUP-03, € 75,-
- External data interface WiFi, interface cable included, KERN KUP-05, € 75,-
- Extension box for connecting up to three interfaces in parallel, KERN KUP-13, € 75,-
- Further details, plenty of further accessories and suitable printers see *Accessories*



Model	Weighing capacity [Max]	Readability [d]	Smallest part weight (Normal)	Counting resolution	Net weight approx.	Weighing plate	Price excl. of VAT ex works	Option: DAkkS Calibr. C	
KERN	kg	g	g/piece	Points	kg		€	KERN	€
CKE 360-3	0,36	0,001	0,02	180.000	0,85	Α	395,-	963-127	98,-
CKE 3600-2	3,6	0,01	0,2	180.000	1,6	В	425,-	963-127	98,-
CKE 6K0.02	6	0,02	0,2	300.000	7	C	550,-	963-128	118,-
CKE 8K0.05	8	0,05	0,5	160.000	7	С	500,-	963-128	118,-
CKE 16K0.05	16	0,05	0,5	320.000	7	C	610,-	963-128	118,-
CKE 16K0.1	16	0,1	1	160.000	7	С	530,-	963-128	118,-
CKE 36K0.1	36	0,1	1	360.000	7	C	570,-	963-128	118,-
CKE 65K0.2	65	0,2	2	325.000	7	С	560,-	963-129	146,-

OPTION



Industrial counting scale with convenient decimal keypad for easy data entry - counting resolution up to 75.000 points, verification optional

Features

- · Ergonomic display device with large keypad and high-contrast display for easy entry and reading of, e.g., tare weights, reference weights, limit values etc.
- Three displays for weight display (verifiable), reference weight, total pieces
- · 100 item memories for master data such as reference weight, reference quantity, container weight (PRE-TARE) etc.
- · Precise counting: The manual reference weight optimisation gradually improves the average

value of the piece weight

- · Totalising of pieces when counting
- · Printout with date and time
- · Protective working cover over the display device included with the delivery

Technical data

- · Large backlit LCD displays, digit height 16,5 mm
- Weighing plate dimensions, stainless steel, W×D×H A 230×230×110 mm B 300×240×110 mm









- **©** 400×300×120 mm **D** 500×400×140 mm E 650×500×140 mm
- · Dimensions of display device W×D×H 260×150×65 mm
- · Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover over the display device, scope of delivery: 5 items, KERN KFB-A02S05, € 44,-
- · Stand to elevate display device
- 1 A E Height of stand approx. 330 mm, KERN IFB-A01, € 68,-
- D, E Height of stand approx. 600 mm, KERN IFB-A02, € 81,-
- · Internal rechargeable battery pack, operating time up to 18 h without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01, € 40,-
- **2** ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01, € 60,-
- Further details, plenty of further accessories and suitable printers see Accessories

































Model	Weighing capacity	Readability	Verification value	Minimal load [Min]	Smallest part weight	Net weight	Weighing plate	Price excl. of VAT	Vaniti a a	.:	Options	
	[Max]	[d]	[e]	g	(Normal)	approx.	•	ex works	Verifica	tion	DAkkS Calibr. Ce DAkkS	rtificate
KERN	kg	g	g		g/piece	kg		€	KERN	€	KERN	€
	Multi-ra	ange balance,	with increasing	g load it switche	es automatically	to the n	ext large	st weighing rar	ige [Max] a	and rea	dout [d]	
			and when the I	and is fully ram	aved the halan	ca ewital	hae hack	to the lower ra	ησο			

			and when the I	oad is fully rem	oved, the bala	nce switch	nes back	to the lower ra	ange			
IFS 6K-4S	3 6	0,1 0,2	-	-	1	3,8	Α	500,-	-	-	963-128	118,-
IFS 10K-4	6 15	0,1 0,2	-	-	2	4,8	В	550,-	-	-	963-128	118,-
IFS 30K0.2DL	12 30	0,2 0,5	-	-	5	7	C	610,-	-	-	963-128	118,-
IFS 60K0.5D	30 60	0,5 1	-	-	10	7	C	610,-	-	-	963-129	146,-
IFS 60K0.5DL	30 60	0,5 1	=	-	10	12	D	780,-	-	-	963-129	146,-
IFS 100K-3	75 150	1 2	-	-	25	12	D	860,-	-	-	963-129	146,-
IFS 100K-3L	75 150	1 2	=	-	25	20	Е	1100,-	-	-	963-129	146,-
IFS 300K-3	150 300	2 5	-	-	50	22	E	1100,-	-	-	963-129	146,-

IFS 6K-3SM	3 6	1 2	1 2	20 40	1	3,8	Α	480,-	965-228	84,-	963-128	118,-
IFS 6K-3M	3 6	1 2	1 2	20 40	1	5,0	В	475,-	965-228	84,-	963-128	118,-
IFS 10K-3M	6 15	2 5	2 5	40 100	2	4,8	В	475,-	965-228	84,-	963-128	118,-
IFS 10K-3LM	6 15	2 5	2 5	40 100	2	7	C	560,-	965-228	84,-	963-128	118,-
IFS 30K-3M	15 30	5 10	5 10	100 200	5	7	C	560,-	965-228	84,-	963-128	118,-
IFS 60K-2M	30 60	10 20	10 20	200 400	10	7	C	570,-	965-229	110,-	963-129	146,-
IFS 60K-2LM	30 60	10 20	10 20	200 400	10	13	D	710,-	965-229	110,-	963-129	146,-
IFS 100K-2M	60 150	20 50	20 50	400 1000	25	12	D	710,-	965-229	110,-	963-129	146,-
IFS 100K-2LM	60 150	20 50	20 50	400 1000	25	22	E	960,-	965-229	110,-	963-129	146,-















Easy to use industrial counting scale for heavy loads, counting resolution up to 300,000 points, ideal for the diverse possibilities of Industry 4.0 applications

Features

- · Self-explanatory, graphic control panel, the workings steps can be understood immediately, even without operating instructions
- no learning time = reduces costs
- ideal for untrained users
- visualised process avoids operating errors
- · The 4 steps are carried out from left to right:
- Place the empty container onto the weighing plate and tare by pressing the TARE key
- 2 Place the reference quantity for the goods to be counted into the container (5, 10 or 20 pieces)
- 3 Confirm the selected reference quantity by pressing the key (5, 10 or 20)
- 4 Pour in the goods to be counted. The number of pieces will immediately be shown in the display
- · Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- · KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or

Ethernet, for the exchange of data and control commands, without any installation outlay

- · KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- · Standardised, simplified concept of operation
- · Protective working cover over the display device included with the delivery

Technical data

- · Backlit LCD display, digit height 21 mm
- Weighing plate dimensions, stainless steel
 - A W×D×H 230×230×103 mm
 - **B** W×D×H 308×318×75 mm, see larger picture
 - C W×D×H 500×400×125 mm
- · Dimensions of display device W×D×H 225×115×60 mm
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover over the display device, scope of delivery: 5 items, KERN DE-A12S05, € 44,-
- · Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, € 35,-
- · Mount to fasten the display device to the platform, for models with weighing plate size
- **B**, **C**, KERN DE-A11N, **€ 40,**-• 5 Stand to elevate display device
- Models with weighing plate size **B**: Height of stand approx. 480 mm, KERN DE-A10, € 120,-Models with weighing plate size **G**: Height of stand approx. 600 mm, KERN DS-A03, € 140,-
- 6 Set for underfloor weighing, consists of platform, bow, hook, only for models with weighing plate B, KERN DS-A01, € 230,-
- · External data interface RS-232, interface cable included, KERN KUP-01, € 60,-
- · External data interface USB, interface cable included, KERN KUP-03, € 75,-
- · External data interface Ethernet, KERN KUP-04, € 115,-
- External data interface WiFi, interface cable included, KERN KUP-05, € 75,-
- · Bluetooth interface adapter, KERN KUP-06, € 99,-
- · Extension box for connecting up to three interfaces in parallel, KERN KUP-13, € 75,-
- · Further details, plenty of further accessories and suitable printers see Accessories

STANDARD











































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Model	Weighing capacity [Max]	Readability [d]	Smallest part weight (Normal)	Counting resolution	Net weight approx.	Cable length approx.	Weighing plate	Price excl. of VAT ex works	Option: DAkkS Calibr. C	
KERN	kg	g	g/piece	Points	kg	m		€	KERN	€
CDS 4K0.02	4	0,02	0,2	200.000	8	2	Α	690,-	963-127	98,-
CDS 15K0.05	15	0,05	0,5	300.000	8	2	В	600,-	963-128	118,-
CDS 16K0.1	16	0,1	1	160.000	8	2	В	600,-	963-128	118,-
CDS 30K0.1	30	0,1	1	300.000	8	2	В	670,-	963-128	118,-
CDS 30K0.1L	30	0,1	1	300.000	19	0,6	C	1150,-	963-128	118,-
CDS 36K0.2L	36	0,2	2	180.000	19	0,6	C	1150,-	963-128	118,-
CDS 60K0.2	60	0,2	2	300.000	19	0,6	C	1150,-	963-129	146,-





High-resolution counting system to count the smallest parts in large quantities, maximum number of parts which can be displayed is 999,999, verification optional

Features

- The highly accurate KERN CCA counting system can replace a whole range of individual balances, efficiently and at a reasonable price
- Thanks to optional verification, it is also suitable for use in verified applications
- The balances are connected to one another with an RS-232 Y-cable, which also allows you to connect a printer

Reference scale KERN EWJ

- This precision balance, which can be used as an individual balance, also fulfils the highest demands through connection with a high-capacity platform
- Automatic internal adjustment, time-controlled every 2 h, guarantees high degree of accuracy and makes the balance independent of its location
- Draught shield standard for models with [Max] = 600 g, weighing space W×D×H 134×128×80 mm
- · Protective working cover included with delivery

Quantity scale KERN IFS

- The high-accuracy quantity counting takes place on the weighing platform IFS. In this way even the smallest of parts can be counted in large volumes
- Tough industry standard suitable for use in harsh industrial applications
- Ergonomic display device with large keypad and high-contrast LCD display for easy entry and reading of, e.g., tare weights, reference weights, limit values etc.
- Three displays for weight display, reference weight, total pieces
- 100 item memories for master data such as reference weight, reference quantity, container weight (PRE-TARE) etc.
- Precise counting: The manual reference weight optimisation gradually improves the average value of the piece weight
- Totalising of pieces when counting
- · Printout with date and time
- Aluminium singlepoint load cell (1×3000 e), protection against dust and water splashes IP65
- Protective working cover over the display device included with the delivery







Note: Official verification is mandatory for commercial trade

Technical data

Reference scale KERN EWJ

- Dimensions weighing surface, stainless steel [Max] 600 g: Ø 120 mm
- **11** [Max] 6000 g: W×D 155×145 mm
- Overall dimensions W×D×H [Max] 600 g: 220×340×180 mm (incl. draught shield) [Max] 6000 g: 215×340×105 mm
- · Net weight [Max] 600 g: approx. 3,2 kg [Max] 6000 g: approx. 3,4 kg

Quantity scale KERN IFS

- · Weighing plate dimensions, stainless steel
 - A W×D×H 300×240×105 mm
 - B W×D×H 400×300×114 mm
 - C W×D×H 500×400×140 mm
- · Cable length of display device approx. 3 m

Counting System KERN CCA

- · Connection cable approx. 1,5 m
- · Net weight
- A approx. 9 kg
- B approx. 14 kg
- C approx. 16 kg

Accessories

Reference scale KERN EWJ

- · Protective working cover, scope of delivery 5 items, KERN EWJ-A04S05, € 44,-
- · Internal rechargeable battery pack, operating time up to 20 h without backlight, charging time approx. 12 h, KERN KFB-A01, € 40,-

Quantity scale KERN IFS

- Protective working cover over the display device, scope of delivery: 5 items, KERN KFB-A02S05, € 44,-
- · Internal rechargeable battery pack, operating time up to 18 h without backlight, charging time approx. 12 h, KERN KFB-A01, € 40,-
- 2 Stand to elevate display device Height of stand approx. 330 mm, KERN IFB-A01, € 68,-For models with weighing plate size A, B: Height of stand approx. 600 mm, KERN IFB-A02, € 81,-
- 3 ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01, € 60,-
- Further details, plenty of further accessories and suitable printers see Accessories

STANDARD

































OPTION DAkks 888 ACCU +3 DAYS FACTORY ... ACCU

Model		Quantity scale		Referen	ce scale	Smallest	Price		O	otions	
	Weighing capacity	Readability [d]	Weighing plate	Weighing capacity	Readability [d]	part weight (Normal)	excl. of VAT ex works	Verifica	tion	DAkkS Calibr	. Cert.
KERN	[Max] kg	g	•	[Max] g	g	g/piece	€	Ш KERN	€	DAkkS KERN	€

CCA 6K-5M	3 6	1 2	Α	600	0,01	0,2	1040,-	965-228-216	145,-	962-128-127	215,-
CCA 6K-4M	3 6	1 2	Α	6000	0,1	1	1000,-	965-229-216	190,-	962-129-127	235,-
CCA 10K-5M	6 15	2 5	Α	600	0,01	0,2	1040,-	965-228-216	145,-	962-128-127	215,-
CCA 30K-5M	15 30	5 10	В	600	0,01	0,2	1140,-	965-228-216	145,-	962-128-127	215,-
CCA 30K-4M	15 30	5 10	В	6000	0,1	1	1100,-	965-229-216	190,-	962-129-127	235,-
CCA 60K-5M	30 60	10 20	В	600	0,01	0,2	1150,-	965-229-216	190,-	962-129-127	235,-
CCA 60K-4M	30 60	10 20	В	6000	0,1	1	1100,-	965-229-216	190,-	962-129-127	235,-
CCA 100K-5M	60 150	20 50	C	600	0,01	0,2	1300,-	965-229-216	190,-	962-129-127	235,-
CCA 100K-4M	60 150	20 50	C	6000	0,1	1	1250,-	965-229-216	190,-	962-129-127	235,-





Counting system to count the smallest parts in large quantities, maximum number of parts which can be displayed is 999,999

Features

 The highly accurate KERN CCS counting system can replace a whole range of individual balances, efficiently and at a reasonable price

Reference scale KERN CFS

- This professional counting scale, which can also be used as a stand-alone scale, meets the highest demands for accuracy, weighing capacity and volume of items, by being connected to a highcapacity weighing bridge
- Programmable using numerical key pad:
- required reference quantity
- known reference weight
- Three displays for weight display, reference weight, total pieces
- Memory (PLU) for 100 items with additional text, reference weight and tare weight,
 e.g. of a container

- Fill-to-target function: Target count or target weight can be programmed. When the target weight is reached there is an audible and visual signal
- Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Draught shield standard for models with [d] =
 0,001 g, weighing space W×D×H 155×141×80 mm
- Protective working cover included with delivery

Quantity scale

KERN KFP / KERN KFU / KERN KIP

 The high-accuracy quantity counting takes place on the weighing platform (= weighing bridge).
 In this way even the smallest of parts can be counted in large volumes

Platform KERN KFP-V20 IP65

- Weighing plate stainless steel, painted steel base
- Aluminium singlepoint load cell, protection against dust and water splashes
- For models with weighing plate size A E

Weighing bridge KERN KIP-V20M IP67

- Lacquered steel weighing bridge, corrugated steel plate. Extremely resistant to bending due to material thickness
- 4 load cells, alloy steel, silicone-coated, IP67
- For models with weighing plate size **F**, **G**, **H**

Weighing bridge KERN KFP-V20 IP67

- Weighing bridge painted steel, Weighing plate screwed on from the top
- 4 load cells, alloy steel, silicone-coated, IP67
- For models with weighing plate size lacktriangle

U-shaped weighing bridge KERN KFU-V20

- Load range: painted steel
- 4 load cells, alloy steel, silicone-coated, IP67
- For models with weighing plate size **J**













Technical data

Reference scale KERN CFS

- · Weighing plate dimensions, stainless steel $[d] = 0,001 g: \emptyset 80 mm$ [d] ≥ 0,01 g: W×D 295×225 mm
- Overall dimensions W×D×H 315×350×100 mm
- · Net weight [d] = 0,001 g: approx. 2,6 kg[d] \geq 0,01 g: approx. 3,4 kg

Quantity platforms, KERN KFP-V20 IP65

- Weighing plate dimensions, stainless steel
 - A W×D×H 230×230×103 mm
 - **B** W×D×H 300×240×105 mm
- C W×D×H 400×300×114 mm
- D W×D×H 500×400×124 mm
- **E** W×D×H 650×500×136 mm

Quantity platforms, KERN KIP-V20M

- · Weighing plate dimensions, coated metal
- **I** W×D×H 1000×1000×108 mm
- G W×D×H 1200×1500×108 mm
- **H** W×D×H 1500×1500×108 mm

Bulk weighing bridges, KERN KFP-V20 IP67

- · Weighing plate dimensions, coated metal
 - W×D×H 1500×1250×80 mm

Bulk pallet load handling, KERN KFU-V20

· Weighing plate dimensions, coated metal **J** W×D×H 840×1190×90 mm

Connection cable approx.

A - E 2,5 m

F - **J** 5 m

Accessories

- · Protective working cover, scope of delivery: 5 items, KERN CFS-A02S05, € 44,-
- 2 Suitable for models with weighing plate size A-E: ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01, € 60,-
- · Internal rechargeable battery pack, operating time up to 70 h without backlight, charging time approx. 14 h, KERN GAB-A04, € 42,-
- Signal lamp for visual support of weighing with tolerance range, KERN CFS-A03, € 310,-
- · Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, € 38,-
- · Further details, plenty of further accessories and suitable printers see Accessories

































Model Quantity scale Reference scale Counting Smallest **Price** Options Weighing excl. of VAT Weighing Readability Weighing Readability resolution partweight DAkkS Calibr. Certificate [d] (Normal) ex works capacity plate capacity [d] **DAkkS** KERN **Points** [Max] kg [Max] g g/piece € g g €. **KERN** CCS 6K-6 300 6 0,2 Α 0,001 1.200.000 0,05 660,-962-128-127 215,-CCS 10K-6 15 0.5 В 300 0.001 3.000.000 0.05 740,-962-128-127 215. CCS 30K0.01. C 3000 0,01 600.000 730,-962-128-127 215,-30 0.5 С CCS 30K0.1. 30 1 6000 0,1 300.000 670,-962-128-128 230, CCS 60K0.01. 60 C 3000 0,01 1.200.000 0,5 720,-962-129-127 235, CCS 60K0.01L. 60 2 D 3000 1.200.000 0,5 770,-962-129-127 235,-0,01 CCS 60K0.1. 60 2 С 6000 600.000 730.-962-129-128 0.1 1 260.-CCS 60K0.1L. 60 2 D 6000 0,1 600.000 1 820,-962-129-128 260,-D CCS 150K0.01 150 5 3000 3.000.000 850. 962-129-127 0.01 0.5 235.-CCS 150K0.01L Ε 150 5 3000 0.01 3.000.000 0.5 1080. 962-129-127 235.-CCS 150K0.1. 150 5 D 760. 962-129-128 6000 0.1 1.500.000 1 260.-Ε CCS 150K0.1L 150 5 6000 0,1 1.500.000 1 1095.-962-129-128 260.-CCS 300K0.1 10 Ε 962-129-128 300 6000 0,1 3.000.000 1 1110, 260.-CCS 300K0.01 300 10 Ε 3000 0,01 6.000.000 0,5 1170, 962-129-127 235,-F CCS 600K-1S 600 200 6000 0.1 6.000.000 1 1840,-962-130-127 305,-CCS 1T-4S 1500 500 F 6000 0,1 15.000.000 1 1740,-962-130-128 320,-CCS 1T-4 1500 500 G 6000 0,1 15.000.000 1 2200,-962-130-128 320,-Н CCS 1T-1L 1500 500 6000 15.000.000 2750.-962-130-128 320.-0.1 CCS 1T-1U 1500 500 J 6000 0,1 15.000.000 1790,-962-130-128 320,-CCS 3T-3L 3000 1000 П 6000 30.000.000 2540,-962-132-128 0.1 650.-

VERSATILE PRODUCTS

You will always find the right model for your application in our wide range of platform scales.

KERN platform scales – as versatile as your areas

- Entry-level models portable, economical and well-made – for weighing post and packages
- High-quality models with high IP rating or with EC type approval for commercial trade
- Top models perfect in your workflow with KERN EasyTouch software, as a user-friendly solution for complex recipe weighing or checkweighing applications with relay control and much more



True allrounders – suitable for entry-level users and industrial professionals

In order to fulfil the diverse requirements of our industrial customers, KERN platform scales have a large number of practical features, such as, for example, counting and recipe functions, data interfaces (RS 232, RS 485, USB, Bluetooth, WLAN, Ethernet), options for integration into networks, PC or printer connections, rechargeable battery/battery operation for mobile use and much more. KERN platform scales – just true allrounders!

Note: The "Hold function" is particularly useful for industrial weighing and guarantees stable weights even when the location is unstable or when weighing animals.



The unbeatable benefits of platform scales:

- Weighing range from 3 kg 600 kg
- Robust platform construction for the harshest industrial use
- · Versatile, available with column
- High degree of overload protection
- Stainless steel weighing plate, shock proof and easy to clean
- · Large selection of platform sizes
- Display device can be positioned separately, e.g. wall-mounted, on a column or next to the platform. Clear view for the user of the display even with bulky items on the scale.
- → Top tip:

If you can't find what you are looking for in our standard range, then we can offer you our CUSOS service: Perfect weighing solutions with personalised platform sizes, specific software solutions and adapted peripheral devices.

For further information on this, see page 146/147







The very best in user-friendliness

Through the wireless communication between the platform and display device (PC or laptop), which has the KERN EasyTouch software installed, you have the highest level of flexibility: Weighing at the location of installation and readout from up to 20 m away thanks to Bluetooth or WiFi.

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PARCEL SCALES, PLATFORM SCALES

Here you'll find a complete summary of the KERN platform scales series and their positioning within the platform scales segment on the basis of application, price-performance ratio and functional volume.

PRECISION PLATFORM SCALES STAINLESS STEEL PLATFORM SCALES PLATFORM SCALES WITH STAINLESS STEEL DISPLAY SFE INDUSTRIAL PLATFORM SCALES **EOC** PARCEL SCALES

Quick-Finder Parcel Scales/Platform Scales

Readability	Weighing capacity	Weighing plate	Model	Price excl. of VAT	Page	DAYS	CAL EXT	₹ KUP	RS 232	ALIBI	KCP PROTOCOL	PCS	ååå	BATT	ACCU
[d] g	[Max] kg	W×D×H mm	KERN	ex works €			For an ex	kplana	tion on	the p	ictos, se	ee the	front fl	ар	
0,01	3	230×230×103	DS 3K0.01S	710,-	117	1	•	•	0		•	•		•	0
0,05	5	230×230×103	DS 5K0.05S	640,-	115	1	•	•	0		•	•			0
0,05	8	308×318×75	DS 8K0.05	610,-	115	1	•	•	0		•	•			0
0,1 0,2	3 6	300×300×110	IOC 6K-4	390,-	110	1	•		•	0	•	•	•		0
0,1	3	230×230×103	IFB 3K-4	455,-	114	1	•		•		•	•	•		0
0,1	10	230×230×103 308×318×75	DS 10K0.1S DS 16K0.1	640,- 620,-	115	1	•	•	0		•	•			0
0,1	20	308×318×75	DS 20K0.1	640,-	115	1	•	•	0		•	•			0
0,1	30	308×318×75	DS 30K0.1	680,-	115	1		•	0		•	•			0
0,1	30	500×400×125	DS 30K0.1L	1150,-	115	1	•	•	0		•	•			0
0,2 0,5	6 15	300×240×110	IOC 10K-4	380,-	110	1	•		•	0	•	•	•		0
0,2 0,5	6 15	300×300×110	EOC 10K-4	340,-	108	1	•		•		•	•	•		0
0,2 0,5	6 15	318×308×88	DE 15K0.2D	380,-	106	1	•		•			•	•	•	0
0,2 0,5	6 15	400×300×110	IOC 10K-4L	420,-	110	1	•		•	0	•	•	•		0
0,2	6	230×230×103	IFB 6K-4S	390,-	114	1	•		•		•	•	•		0
0,2	6	300×240×105 300×240×105	IFB 6K-4 IXC 6K-4	400,-	114	1	•		0	0	•	•	•		0
0,2	36	308×318×75	DS 36K0.2	660,-	115	1	•	•	0		•	•			0
0,2	36	500×400×125	DS 36K0.2L	1070,-	115	1	•	•	0		•	•			0
0,2	60	500×400×125	DS 60K0.2L	1150,-	115	1	•	•	0		•	•			0
0,5 1	15 30	400×300×110	IOC 30K-4	420,-	110	1	•		•	0	•	•	•		0
0,5 1	15 35	300×300×110	EOC 30K-4S	340,-	108	1	•		•		•	•	•		0
0,5 1	15 35	318×308×88	DE 35K0.5D	375,-	106	1	•		•			•	•	•	0
0,5 1	15 35	500×400×120	EOC 30K-4	390,-	108	1	•				•	•	•		0
0,5	6	300×300×110	EOC 6K-4A	340,-	108	1	•				•	•	•		0
0,5	6	318×308×75	DE 6K0.5A	240,-	106	1	•		•			•	•	•	0
0,5	15 15	300×240×105	IFB 10K-4	415,-	114	1	•		0	0	•	•	•		0
0,5 0,5	15	300×240×105 400×300×114	IXC 10K-4 IFB 10K-4L	680,- 495,-	116 114	1	•			- 0	•	•	•		0
0,5	15	400×300×114	IFC 10K-4L	550,-	112	1	•		0			•	•		0
0,5	15	400×300×114	IXC 10K-4L	740,-	116	1	•		0	0	•	•	<u> </u>		0
0,5	65	500×400×125	DS 65K0.5	1080,-	115	1	•	•	0		•	•			0
0,5	100	500×400×125	DS 100K0.5	1140,-	115	1	•	•	0		•	•			0
1 2	3 6	230×230×103	IFB 6K-3SM	390,-	114	1	0		•		•	•	•		0
1 2	3 6	300×240×105	IFB 6K1DM	400,-	114	1	0 •		•		•	•	•		0
1 2	3 6	300×240×105	IXC 6K-3M	660,-	116	1	0		0	0		•	•		0
1 2	3 6	300×300×110	EOC 6K-3	320,-	108	1	•		•		•	•	•		0
1 2	3 6	300×300×110	IOC 6K-3M	390,-	110	1	0		•	0	•	•	•		0
1 2	3 6	318×308×75 300×300×110	DE 6K1D EOC 60K-3	210,- 340,-	106 108	1	•		•		•	•	•	•	0
1 2	30 60	318×308×88	DE 60K1D	375,-	106	1	•		-	-		•	·	•	0
1 2	30 60	400×300×110	IOC 60K-3	430,-	110	1	•		•	0	•	•	•		0
1 2	30 60	500×400×120	EOC 60K-3L	410,-	108	1	•		•		•	•	•		0
1 2	30 60	500×400×120	IOC 60K-3L	510,-	110	1	•		•	0	•	•	•		0
1 2	30 60	522×406×98	DE 60K1DL	500,-	106	1	•		•			•	•	•	0
1	12	300×300×110	EOC 10K-3A	350,-	108	1	•				•	•	•		0
1	12	318×308×75	DE 12K1A	240,-	106	1	•		•			•	•	•	0
1	30	400×300×114	IFB 30K-3	475,-	114	1	•		•		•	•	•		0
1	30	400×300×114 400×300×114	IFC 30K-3	570,- 720,-	112	1	•	•	0	0	•	•	•		0
1	30	500×400×124	IXC 30K-3L	720,- 860,-	116	1	•		0	0	•	•	•		0
1	150	500×400×125	DS 150K1	1140,-	115	1	•	•	0						0
2 5	6 12	300×300×110	EOC 10K-3	330,-	108	1	•	-	•		•	•	•		0
2 5	6 15	300×240×105	IFB 15K2DM	435,-	114	1	0 •		•		•	•	•		0
2 5	6 15	300×240×105	IXC 10K-3M	680,-	116	1	0 •		0	0	•	•	•		0
2 5	6 15	300×240×110	IOC 10K-3M	335,-	110	1	0		•	0	•	•	•		0
2 5	6 15	318×308×75	DE 15K2D	215,-	106	1	•		•			•	•	•	0
2 5	6 15	400×300×110	IOC 10K-3LM	405,-	110	1	0		•	0	•	•	•		0
2 5	6 15	400×300×114 400×300×114	IFB 15K2DLM	550,- 740 -	114	1	0 •		0	0	•	•	•		0
2 5	60 150	300×300×114	EOC 100K-3	740,- 340,-	108	1	0		0	0	•	•	•		0
2 5	60 150	318×308×88	DE 150K2D	385,-	106	1	•		•			•	•	•	0
2 5	60 150	500×400×120	EOC 100K-3L	440,-	108	1	•		•		•	•	•		0
2 5	60 150	500×400×120	IOC 100K-3	520,-	110	1	•		•	0	•	•	•		0
						1	•		•			•	•	•	0
2 5	60 150	522×406×98	DE 150K2DL	510,-	106	'			_			_	_		
	60 150 60 150	522×406×98 650×500×150	IOC 100K-3L	700,-	110	1	•		•	0	•	•	•		0
2 5										0	•				•

 \square News 2024 | * Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

● Standard ○ Option

Quick-Finder Parcel Scales/Platform Scales

Readability [d]	Weighing capacity [Max]	Weighing plate W×D×H	Model	Price excl. of VAT ex works	Page	DAYS	M	CAL EXT	₩ KUP	RS 232	ALIBI	KCP PROTOCOL	PCS	ååå IP	BATT	ACCL
u] 3	kg	mm	KERN	€X WOIKS			Fo	r an e	xplana	tion on	the pi	ctos, se	e the	front fl	ар	
!	24	318×308×75	DE 24K2A	245,-	106	1		•		•			•	•	•	0
	60	400×300×114	IFB 60K-3	470,-	114	1		•		•		•	•	•		0
	60	400×300×114	IFC 60K-3	590,-	112	1		•	•	0		•	•	•		0
	60	400×300×114 500×400×124	IXC 60K-3 IFC 60K-3L	780,- 770,-	116	1		•	•	0		•	•	•		0
<u> </u>	60	500×400×124	IFB 60K-3L	650,-	114	1		•		•				•		0
	60	500×400×124	IXC 60K-3L	870,-	116	1		•		0	0	•	•	•		0
10	15 30	400×300×110	IOC 30K-3M	410,-	110	1	0	•		•	0	•	•	•		0
10	15 30	400×300×114	IFB 30K5DM	520,-	114	1	0	•		•		•	•	•		0
10	15 30	400×300×114	IFC 30K5DM	570,-	112	1	0	•	•	0	0	•	•	•		0
10	15 30	400×300×114	IXC 30K-3M	720,-	116	1	0	•		0	0	•	•	•		0
10	15 30 15 35	500×400×124 300×300×110	IXC 30K-3LM EOC 30K-3	860,- 340,-	116	1	0	•		0	0	•	•	•		0
10	15 35	318×308×75	DE 35K5D	220,-	106	1		•		•			•	•	•	0
1 10	15 35	500×400×120	EOC 30K-3L	390,-	108	1		•		•		•	•	•		0
10	15 35	522×403×83	DE 35K5DL	370,-	106	1	-	•		•			•	•	•	0
10	150 300	500×400×120	EOC 300K-3	410,-	108	1		•		•		•	•	•		0
10	150 300	522×406×98	DE 300K5DL	510,-	106	1		•		•			•	•	•	0
10	150 300	650×500×150	IOC 300K-3	720,-	110	1		•		•	0	•	•	•		0
	15	300×240×105	SFE 10K-3NM	475,-	118	1	0	•						•		•
	15 15	315×305×57 315×305×57	EOE 10K-3 EOB 15K5	170,- 185,-	103	1		•							•	
	15	400×300×114	SFE 10K-3LNM	560,-	118	1	0	•						•		
	60	300×300×110	EOC 60K-3A	350,-	108	1		•		•		•	•	•		0
	60	318×308×75	DE 60K5A	240,-	106	1		•		•			•	•	•	С
	150	500×400×124	IFB 100K-3	650,-	114	1		•		•		•	•	•		С
	150	500×400×124	IXC 100K-3	850,-	116	1		•		0	0	•	•	•		C
	150	650×500×136	IXC 100K-3L	1010,-	116	1		•		0	0			•		C
2 1 20	150	650×500×136	IFB 100K-3L	800,-	114	1	-	•		•		•	•	•		0
0 20 0 20	30 60	300×300×110 318×308×75	EOC 60K-2 DE 60K10D	350,- 215,-	108	1		•		•			•	•	•	C
0 20	30 60	400×300×110	IOC 60K-2M	410,-	110	<u>'</u> 1	0	•		-	0	•	•	•		
0 20	30 60	400×300×114	IFB 60K10DM	520,-	114	1	0	•		•			•	•		C
0 20	30 60	400×300×114	IFC 60K10DM	590,-	112	1	0	•	•	0	0	•	•	•		C
0 20	30 60	400×300×114	IXC 60K-2M	780,-	116	1	0	•		0	0	•	•	•		С
0 20	30 60	500×400×120	EOC 60K-2L	390,-	108	1		•		•		•	•	•		С
0 20	30 60 30 60	500×400×120	IOC 60K-2LM IFB 60K10DLM	500,-	110	1	0	•		•	0	•	•	•		C
0 20	30 60	500×400×124 500×400×124	IFC 60K10DLM	670,- 770,-	114	1	0	•		0	0		•	•		
0 20	30 60	500×400×124	IXC 60K-2LM	870,-	116	<u>'</u>	0	•		0	0	•	•	•		
0 20	30 60	522×403×83	DE 60K10DL	370,-	106	1		•		•			•	•	•	C
0 20	300 600	800×600×200	IOC 600K-2	870,-	110	2*		•		•	0	•	•	•		C
0	30	300×240×105	SFE 30K-2NM	490,-	118	1	0	•						•		•
0	35	315×305×57	EOE 30K-2	170,-	103	1		•							•	
0	35	315×305×57	EOB 35K10	185,-	104	1		•							•	
0	120 120	318×308×75 500×400×120	DE 120K10A EOC 100K-2A	250,- 400,-	106 108	1	-	•		•		•	•	•	•	0
0	300	650×500×136	IXC 300K-3	1200,-	116	1		•		0	0		•	•		
0	300	650×500×136	IFB 300K-2	920,-	114	1		•		•		•	•	•		C
0 50	60 150	300×300×110	EOC 100K-2	340,-	108	1		•		•		•	•	•		C
0 50	60 150	318×308×75	DE 150K20D	225,-	106	1		•		•			•	•	•	C
0 50	60 150	500×400×120	EOC 100K-2L	380,-	108	1		•		•		•	•	•		C
0 50	60 150	500×400×120	IOC 100K-2M	500,-	110	1	0	•		•	0	•	•	•		C
0 50 0 50	60 150	500×400×124 500×400×124	IFB 150K20DM IFC 150K20DM	650,- 720,-	114	1	0	•	•	0	0	•	•	•		C
0 50	60 150	500×400×124	IXC 100K-2M	850,-	116	1	0	•		0	0	•	•	•		
) 50	60 150	522×403×83	DE 150K20DL	365,-	106	1		•		•			•	•	•	
0 50	60 150	600×500×150	EOC 100K-2XL	580,-	108	1		•		•			•	•		C
0 50	60 150	650×500×136	IXC 100K-2LM	1010,-	116	1	0	•		0	0	•	•	•		C
0 50	60 150	650×500×136	IFB 150K20DLM	870,-	114	1	0	•		•		•	•	•		C
0 50	60 150	650×500×136	IFC 150K20DLM	940,-	112	1	0	•	•	0	0	•	•	•		
0 50 0 50	60 150	650×500×150 650×500×89	IOC 100K-2LM DE 150K20DXL	700,- 520,-	110	1	0	•		•	0	•	•	•	•	
0 50	60 150	950×500×60	EOC 100K-2XXL	600,-	108	1		•		•		•	•	•		
0 30	60	315×305×57	EOE 60K-2	170,-	103	1	-	•							•	_
0	60	315×305×57	EOB 60K20	185,-	104	1		•							•	_
0	60	400×300×114	SFE 60K-2NM	550,-	118	1	0	•						•		•
0	60	500×400×124	SFE 60K-2LNM	670,-	118	1	0	•						•		•

Quick-Finder Parcel Scales/Platform Scales

Readability	Weighing	Weighing	Model	Price	Page		M		煮	• 6888 •		KCP	***	444		
	capacity	plate		excl. of VAT		DAYS		CAL EXT	KUP	RS 232	ALIBI	PROTOCOL	PCS	IP	BATT	ACCU
[d]	[Max]	$W \times D \times H$	I/EDN	ex works					nlanat	ion on	+ha ni	otoo o		frant fl	on	
<u>g</u>	kg	mm	KERN	€					cpianai	.1011 011	tne pi	ctos, se	ee the i	ront II	•	
20	60	550×550×58	EOE 60K-2L	300,-	103	1		•							•	
20	60	550×550×58	EOB 60K20L	370,-	104	1		•							•	
20	600	800×600×189	IFB 600K-2	1240,-	114	2*		•		•		•	•	•		0
20	600	800×600×189	IFC 600K-2	1210,-	112	1		•	•	0		•	•	•		0
50 100	150 300	500×400×120	EOC 300K-2	400,-	108	1		•					•	•		0
50 100	150 300	522×403×83	DE 300K50D	370,-	106	1		•					•	•	•	
50 100	150 300	600×500×150	EOC 300K-2L	580,-	108	1		•		•		•	•	•		0
50 100	150 300	650×500×136	IXC 300K-2M	1200,-	116	1	0	•		0	0	•	•	•		0
50 100	150 300	650×500×136	IFB 300K50DM	840,-	114	1	0	•		•		•	•	•		0
50 100	150 300	650×500×150	IOC 300K-2M	720,-	110	1	0	•			0	•	•	•		0
50 100	150 300	650×500×95	DE 300K50DL	520,-	106	1		•					•	•	•	0
50	150	315×305×57	EOE 100K-2	170,-	103	1		•							•	
50	150	315×305×57	EOB 150K50	185,-	104	1		•							•	
50	150	400×300×130	SFE 100K-2NM	580,-	118	1	0	•						•		•
50	150	500×400×124	SFE 100K-2LNM	650,-	118	1	0	•						•		•
50	150	550×550×58	EOE 150K50L	300,-	103	1		•							•	
50	150	550×550×58	EOB 150K50L	370,-	104	1		•							•	
50	150	650×500×136	SFE 100K-2XLNM	930,-	118	1	0	•						•		•
50	150	950×500×58	EOE 150K50XL	320,-	103	1		•							•	
50	150	950×500×58	EOB 150K50XL	450,-	104	1		•							•	
50	150	950×500×58	EOS 150K50XL	470,-	105	1		•							0	
100 200	300 600	800×600×189	IFB 600K-1M	1310,-	114	2*	0	•				•	•	•		0
100 200	300 600	800×600×200	IOC 600K-1M	840,-	110	2*	0	•		•	0	•	•	•		0
100	300	315×305×57	EOE 300K100	170,-	103	1		•							•	
100	300	315×305×57	EOB 300K100A	185,-	104	1		•							•	
100	300	550×550×58	EOE 300K100L	300,-	103	1		•							•	
100	300	550×550×58	EOB 300K100L	370,-	104	1		•							•	
100	300	650×500×136	SFE 300K-1LNM	910,-	118	1	0	•						•		•
100	300	950×500×58	EOE 300K100XL	320,-	103	1		•							•	
100	300	950×500×58	EOB 300K100XL	450,-	104	1		•							•	
100	300	950×500×58	EOS 300K100XL	470,-	105	1		•							•	

News 2024 | * Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

● Standard ○ Option









Parcel scales with big platform for fast and easy weighing in the office, production, dispatch etc.

Features

- · High mobility: thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations
- · Wall mount for display device, standard
- · Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value

Technical data

- · Large LCD display, digit height 25 mm
- Weighing plate dimensions, steel, lacquered
- A W×D×H 315×305×57 mm
- **B** W×D×H 550×550×58 mm, see larger picture
- **C** W×D×H 950×500×58 mm
- · Dimensions of display device W×D×H 235×114×51 mm
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 100 h
- Permissible ambient temperature 5 $^{\circ}\text{C}/35$ $^{\circ}\text{C}$

Accessories

- Protective working cover over the display device, scope of delivery: 5 items, KERN EOB-A04BS05, **€ 44,-**
- Stand to elevate display device, for models with weighing plate size A, height of stand approx. 480 mm, KERN EOB-A01N, € 70,-
- · Stand to elevate display device, height of stand approx. 1000 mm, KERN EOB-A02B, € 110,-
- 11 Non-slip rubber mat, W×D×H 945×505×5 mm, KERN EOE-A01, € 50,-





DAkkS
+3 DAYS

Model	Weighing capacity	Readability	Reproducibility	Linearity	Net weight	Weighing plate	Price excl. of VAT	Options DAkkS Calibr. O	
	[Max]	[d]			approx.		ex works	DAkkS	
KERN	kg	g	g	g	kg		€	KERN	€
EOE 10K-3	15	5	5	± 10	4,0	Α	170,-	963-128	118,-
EOE 30K-2	35	10	10	± 20	4,0	Α	170,-	963-128	118,-
EOE 60K-2	60	20	20	± 40	4,0	Α	170,-	963-129	146,-
EOE 60K-2L	60	20	20	± 40	14	В	300,-	963-129	146,-
EOE 100K-2	150	50	50	± 100	4,0	Α	170,-	963-129	146,-
EOE 150K50L	150	50	50	± 100	14	В	300,-	963-129	146,-
EOE 150K50XL	150	50	50	± 100	18	C	320,-	963-129	146,-
EOE 300K100	300	100	100	± 200	4,0	Α	170,-	963-129	146,-
EOE 300K100L	300	100	100	± 200	14	В	300,-	963-129	146,-
EOE 300K100XL	300	100	100	± 200	18	C	320,-	963-129	146,-













Allround parcel scale with robust stainless steel weighing plate – also with XL platform and large weighing ranges

Features

- · Weighing plate stainless steel, painted steel base
- Simple and convenient 4-key operation
- Wall mount for display device, standard
- Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value
- Protective working cover included with delivery
- Universal external mains adapter included with delivery

Technical data

- · Large LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel
- A W×D×H 315×305×57 mm
- **B** W×D×H 550×550×58 mm, see larger picture
- C W×D×H 950×500×58 mm
- Dimensions of display device W×D×H 235×114×51 mm
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 60 h
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Protective working cover over the display device, scope of delivery: 5 items, KERN EOB-A04BS05, € 44,-
- ■ Stand to elevate display device, height of stand approx. 1000 mm, KERN EOB-A02B, € 110,-
- 2 Stand to elevate display device, for models with weighing plate size , height of stand approx.
 480 mm, KERN EOB-A01N, € 70,-
- ■ Non-slip rubber mat, W×D×H 945×505×5 mm, KERN EOE-A01, € 50,-



Model	Weighing capacity	Readability	Repro- ducibility	Linearity	Cable length (Spiral cable)	Net weight	Weighing plate	Price excl. of VAT	Options DAkkS Calibr. C	
KERN	[Max] kg	[d] g	g	g	approx. m	approx. kg		ex works €	DAkkS KERN	€
EOB 15K5	15	5	5	± 10	1,8 m	3,8	А	185,-	963-128	118,-
EOB 35K10	35	10	10	± 20	1,8 m	3,8	А	185,-	963-128	118,-
EOB 60K20	60	20	20	± 40	1,8 m	3,8	А	185,-	963-129	146,-
EOB 60K20L	60	20	20	± 40	2,7 m	13	В	370,-	963-129	146,-
EOB 150K50	150	50	50	± 100	1,8 m	3,8	Α	185,-	963-129	146,-
EOB 150K50L	150	50	50	± 100	2,7 m	13	В	370,-	963-129	146,-
EOB 150K50XL	150	50	50	± 100	2,7 m	17	C	450,-	963-129	146,-
EOB 300K100A	300	100	100	± 200	1,8 m	3,8	А	185,-	963-129	146,-
EOB 300K100L	300	100	100	± 200	2,7 m	13	В	370,-	963-129	146,-
EOB 300K100XL	300	100	100	± 200	2,7 m	17	С	450,-	963-129	146,-









Heavy duty parcel and veterinary platform scale with extra large stainless steel weighing plate

Features

- Weighing plate stainless steel, painted steel base
- Simple and convenient 4-key operation
- Wall mount for display device, standard
- Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value
- In the scale can be easily transported using rollers and a handle and does not require much storage space
- Protective working cover included with delivery
- · Non-slip rubber mat included with delivery
- Universal external mains adapter included with delivery

Technical data

- Large LCD display, digit height 25 mm
- Weighing plate dimensions,
 W×D×H 950×500×58 mm, stainless steel
- Dimensions of display device W×D×H 235×114×51 mm
- Cable length display device, spiral cable, approx. 2,7 m
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 60 h
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Protective working cover over the display device, scope of delivery: 5 items, KERN EOB-A04BS05, € 44,-
- 2 Stand to elevate display device, height of stand approx. 1000 mm, KERN EOB-A02B, € 110,-

STANDARD

















Model	Weighing capacity	Readability	Reproducibility	Linearity	Net weight	Price excl. of VAT	Option DAkkS Calibr. 0	
KERN	[Max] kg	[d] g	g	g	approx. kg	ex works €	DAKKS CAIIDI. C DAkkS KERN	€
EOS 150K50XL	150	50	50	± 100	19	470,-	963-129	146,-
EOS 300K100XL	300	100	100	± 200	19	470,-	963-129	146,-



The long lasting story of success with dust and spray protected display device







Piece counting

Animal weighing

Recipe-weighing







Features

- High mobility: Thanks to battery operation/ rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department, etc.)
- · Display device flexible positioning e. g. free-standing or screwed to the wall
- 11 Display device: Plastics, protection against dust and water splashes IP65
- Weighing plate stainless steel, painted steel base
- · PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- · With the recipe function you can weigh the different ingredients of a mixture. As a check, you can also call up the total weight of all the ingredients

- · Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- Protective working cover included with delivery

Technical data

- Large backlit LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel
- A W×D×H 318×308×75 mm
- **B** W×D×H 318×308×88 mm
- © W×D×H 522×403×83 mm, see larger picture
- **D** W×D×H 522×406×98 mm
- **E** W×D×H 650×500×89 mm
- · Dimensions of display device W×D×H 225×110×55 mm
- Optional battery operation, 9 V block not included in scope of delivery, operating time up to 12 h
- Permissible ambient temperature 5 °C/35 °C

Accessories

- · Protective working cover over the display device, scope of delivery: 5 items, KERN DE-A12S05, € 44,-
- · Internal rechargeable battery pack, operating time up to 30 h without backlight, charging time approx. 10 h, KERN NDE-A02, € 60,-
- · Mount to fasten the display device to the platform, for models with weighing plate size **B**, **C**, **D**, **E**, KERN DE-A11N, € 40,-
- · Wall mount for display device, KERN DE-A13, € 32,-
- 2 Stand to elevate display device, height of stand approx. 480 mm, KERN DE-A10, € 120,-
- · Individual header data: the free software SHM-01 can be used to print header lines on the printout when using printers YKN-01 and YKB-01N
- · Further details, plenty of further accessories and suitable printers see Accessories

































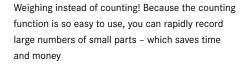


Model	Weighing capacity [Max]	Readability [d]	Repro- ducibility	Linearity	Smallest part weight (Normal)	Cable length approx.	Net weight approx.	Weighing plate	Price excl. of VAT ex works	Options DAkkS Calibr. Cert. DAkkS	
KERN	kg	g	g	g	g/piece	m	kg		€	KERN	€
-		Multi-div	rision balance	with high resol	ution readability	, with incre	easing or decr	easing load	d,	KLKIN	
it switches automatically to the next largest or smallest weighing range [Max] and readout [d].											
DE 15K0.2D	6 15	0,2 0,5	0,2 0,5	± 0,8 2	4	1	4	В	380,-	963-128	118,-
DE 35K0.5D	15 35	0,5 1	0,5 1	± 2 4	10	1	7	В	375,-	963-128	118,-
DE 60K1D	30 60	1 2	1 2	± 4 8	20	1,47	7	В	375,-	963-129	146,-
DE 60K1DL	30 60	1 2	1 2	± 4 8	20	1,4	15	D	500,-	963-129	146,-
DE 150K2D	60 150	2 5	2 5	± 8 20	40	1,6	7	В	385,-	963-129	146,-
DE 150K2DL	60 150	2 5	2 5	± 8 20	40	1,4	15	D	510,-	963-129	146,-
DE 300K5DL	150 300	5 10	5 10	± 20 40	100	1,4	15	D	510,-	963-129	146,-
Multi-division balance, with increasing or decreasing load, it switches automatically											
to the next largest or smallest weighing range [Max] and readout [d].											
DE 6K1D	3 6	1 2	1 2	±3 6	40	1,4	4,8	Α	210,-	963-128	118,-
DE 15K2D	6 15	2 5	2 5	± 6 15	100	1,4	4,8	Α	215,-	963-128	118,-
DE 35K5D	15 35	5 10	5 10	± 15 30	100	1,4	4,8	Α	220,-	963-128	118,-
DE 35K5DL	15 35	5 10	5 10	± 15 30	100	1,4	16	C	370,-	963-128	118,-
DE 60K10D	30 60	10 20	10 20	± 30 60	200	1,4	4,8	Α	215,-	963-129	146,-
DE 60K10DL	30 60	10 20	10 20	± 30 60	200	1,4	16	C	370,-	963-129	146,-
DE 150K20D	60 150	20 50	20 50	± 60 150	400	1,5	5	Α	225,-	963-129	146,-
DE 150K20DL	60 150	20 50	20 50	± 60 150	400	1,5	16	C	365,-	963-129	146,-
DE 150K20DXL	60 150	20 50	20 50	± 60 150	400	1,4	19	Е	520,-	963-129	146,-
DE 300K50DL	150 300	50 100	50 100	± 150 300	2000	1,05	28	Е	520,-	963-129	146,-
DE 300K50D	150 300	50 100	50 100	± 150 300	2000	1,25	16	C	370,-	963-129	146,-
DE 6K0.5A	6	0,5	0,5	± 1,5	10	1,4	4,8	Α	240,-	963-128	118,-
DE 12K1A	12	1	1	± 3	20	1,4	4,8	Α	240,-	963-128	118,-
DE 24K2A	24	2	2	± 6	40	1,4	4,8	Α	245,-	963-128	118,-
DE 60K5A	60	5	5	± 15	100	1,4	4,8	Α	240,-	963-129	146,-
DE 120K10A	120	10	10	± 30	200	1,4	5,0	Α	250,-	963-129	146,-



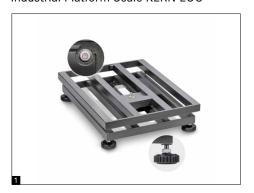
Robust and high-resolution platform scale with practical Flip/Flop display device for greatest ease of use







Practical Flip/Flop display device: flexible positioning e.g. free-standing or screwed to the wall (optional). By rotating the upper housing shell you can determine the angle of the display as well as the cable outlet. Factory Option for an additional cost, delivery time + 2 working days, KERN KIB-M01, see Accessories on the right, please indicate when placing your order



Features

STANDARD

• ARRA •

- · High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (laboratory, production, quality control, commissioning etc.)
- 1 Platform: weighing plate of stainless steel, painted steel base, silicone-coated aluminium load cell with protection against dust and water splashes IP65. Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- · Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading
- · Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value
- · Benchtop stand incl. wall mount for display device as standard



- · Protective working cover included with delivery
- Searching and remote control of the balance using external control devices or computers with the KERN Communication Protocol (KCP), KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol.

Technical data

- · Large backlit LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel, W×D×H A 300×300×110 mm B 500×400×120 mm **©** 600×500×150 mm **D** 950×500×60 mm

OPTION

DAkks

· Dimensions of display device W×D×H 268×115×80 mm



Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover, scope of delivery 5 items, KERN EOC-A01S05, € 55,-
- Internal rechargeable battery pack, operating time up to 43 h without backlight, charging time approx. 3 h, KERN KFB-A01, € 40,-
- 2 for models with weighing plate size A C: Stand to be screwed onto the platform, height of stand approx.330 mm, KERN EOC-A05, € 65,-
- Mount to fasten the display device to the platform, KERN EOC-A03, € 33,-
- Benchtop stand incl. wall mount for display device, KERN EOC-A04, € 33,-
- · Modification of the display device, to move the cable outlet to the front of the display device, ideal e.g. for subsequent wall installation of the display device (standard configuration ex works: rear outlet), Factory Option, delivery time + 2 working days, KERN KIB-M01, € 104,-

444 PRINTER PCS IP 65 +3 DAYS CAL EXT RS 232 PROTOCOL SUM TOL MULTI ACCU Model Weighing Readability Repro-Linearity Smallest part Cable length Net weight Weighing Price Options capacity ducibility weight spiral cable* excl. of VAT DAkkS Calibr. Cert. [d] [Max] (Normal) approx. approx. ex works DAkkS KERN kg g g g/piece m kg € g KERN Multi-range balance with high-resolution display, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range **EOC 10K-4** 6 | 15 0,2 | 0,5 340,-963-128 118,- $0.2 \mid 0.5$ ± 0.6 | 1.5 5 **EOC 30K-4** 15 | 35 963-128 0.5 I 1 0.5 | 1 ± 1.5 | 3 10 3 9 В 390.-118.-**EOC 30K-4S** 15 | 35 ± 1,5 | 3 Α 340,-963-128 0,5 | 1 0,5 | 1 10 3 6 118,-EOC 60K-3 7 Α 30 | 60 20 340. 963-129 146.-1 | 2 1 | 2 ±3 | 6 3 EOC 60K-3L 30 | 60 1 | 2 1 | 2 ±3 | 6 20 3 9 В 410. 963-129 146,-2 | 5 2 | 5 EOC 100K-3 60 | 150 ± 6 | 15 50 3 6 Α 340.-963-129 146,-EOC 100K-3L 60 | 150 2 | 5 2 | 5 ± 6 | 15 50 3 Q В 440,-963-129 146,-EOC 300K-3 150 | 300 5 | 10 5 | 10 ± 15 | 30 100 3 В 410,-963-129 146,-Multi-range balance without high-resolution display **EOC 6K-3** 1 | 2 Α 118,-3 | 6 1 | 2 ±3 | 6 3 6 320,-963-128 2.5 **EOC 10K-3** 6 | 12 2 | 5 2 | 5 ± 6 | 15 5 3 Α 330,-963-128 118.-6 Α **EOC 30K-3** 15 | 35 5 | 10 5 | 10 ± 15 | 30 10 3 340,-963-128 118,-6 **EOC 30K-3L** 15 | 35 5 | 10 5 | 10 ± 15 | 30 10 3 В 390,-963-128 118,-EOC 60K-2 30 | 60 10 | 20 10 | 20 ± 30 | 60 20 3 7 Α 350,-963-129 146,-EOC 60K-2L 3 9 963-129 30 I 60 10 | 20 10 I 20 ± 30 | 60 20 В 390.-146.-EOC 100K-2 60 | 150 20 | 50 20 | 50 ± 60 | 150 50 3 6 Α 340,-963-129 146,-В 146,-EOC 100K-2L 60 | 150 20 | 50 ± 60 | 150 50 380. 20 | 50 3 9 963-129 C EOC 100K-2XL 60 I 150 20 I 50 20 | 50 ± 60 | 150 50 3 19 580. 963-129 146.-EOC 100K-2XXL 20 | 50 20 | 50 ± 60 | 150 100 *2.7 17 D 600, 963-129 146,-60 I 150 EOC 300K-2 150 | 300 50 | 100 50 | 100 ± 150 | 300 100 3 9 В 400,-963-129 146,-580,-EOC 300K-2L 19 С 150 | 300 50 | 100 50 | 100 ± 150 | 300 100 3 963-129 146,-EOC 6K-4A 0,5 0,5 2.5 3 Α 340.-963-128 118,-6 $\pm 1,5$ 6 **EOC 10K-3A** 12 ± 3 3 Α 350,-963-128 118,-**EOC 20K-3A** 24 2 2 ± 6 10 3 6 Α 350,-963-128 118,-146,-60 5 5 20 3 Α 963-129 EOC 60K-3A ± 15 350.-EOC 100K-2A 120 10 10 ± 30 50 3 В 400, 963-129 146,-





Allround platform scale with a wide range of communication options, verification optional – also available as high-resolution version with fine display





■ Verification plug, for verified balances this enables you to separate the display device and platform without affecting the verification, e.g. for installing the scale in a packing and dispatch table, pit frame etc. at a later date. Please order this at the same time as you purchase your scale, see accessories

Practical Flip/Flop display device: flexible positioning e.g. free-standing or screwed to the wall (optional). By rotating the upper housing shell you can determine the angle of the display as well as the cable outlet. Factory Option for an additional cost, delivery time + 2 working days, KERN KIB-M01, see Accessories on the right, please indicate when placing your order

Features

- Industry 4.0: A wide range of (optional) data interfaces allows easy transfer of weighing data to tablets, laptops, PCs, networks, smartphones, printers, etc.
- Searching and remote control of the balance using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol. Only possible through data interface RS-232, other interfaces on request. For details see page 21
- · Standardised, simplified concept of operation
- High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- Platform: weighing plate of stainless steel, painted steel base, silicone-coated aluminium load cell with protection against dust and water splashes IP65
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result

Technical data

- · Large LCD display, digit height 25 mm
- Weighing plate dimensions, stainless steel, W×D×H
- A 300×240×110 mm B 300×300×110 mm
- © 400×300×110 mm D 500×400×120 mm
- **■** 650×500×150 mm **■** 800×600×200 mm
- Dimensions of display device W×D×H 268×115×80 mm
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery
 5 items, KERN EOC-A01S05, € 55,-
- Stand to be screwed onto the platform, height of stand approx.330 mm, KERN EOC-A05, € 65,-
- Mount to fasten the display device to the platform, KERN EOC-A03, € 33,-
- Benchtop stand incl. wall mount for display device, KERN EOC-A04, € 33,-
- Internal rechargeable battery pack, operating time up to 26 h with backlight, charging time approx.
 3 h, KERN KFB-A01, € 40,-
- USB data interface, for transferring weighing to the PC, printer etc., must be ordered at purchase, KERN KIB-A03, € 120,-
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, KERN KIB-A04, € 110,-

- WiFi interface for wireless connection of the balance to networks and WiFi capable devices, such as tablets, laptops or smartphones, continuous data transfer, must be ordered at purchase, KERN KIB-A10, € 130,-
- Ethernet data interface, to connect an IP-based Ethernet network, continuous data transfer, must be ordered at purchase, KERN KIB-A02, € 165,-
- Signal lamp, including interface, for visual support of weighing with tolerance range, must be ordered at purchase, KERN KIB-A06, € 470,-
- Alibi memory, for paperless archiving of the weighing results with ID no., gross/net/tare value, date and time, must be ordered at purchase, KERN KIB-A13, € 164,-
- Alibi memory, including USB interface for exporting weighing results to external data storage media, such as, for example, USB sticks, hard drives, etc., must be ordered at purchase, KERN KIB-A01, € 175,-
- ■ Verification plug, for verified balances this enables you to separate the display device and platform without affecting the verification, e.g. for installing the scale in a packing and dispatch table, pit frame etc. at a later date. Please order this at the same time as you purchase your scale, KERN KIB-A12, € 164,-
- Modification of the display device, to move the cable outlet to the front of the display device, ideal e.g. for subsequent wall installation of the display device (standard configuration ex works: rear outlet), Factory Option, delivery time + 2 working days, KERN KIB-MO1, € 104,-

*Note: In addition to the RS-232 data interface, which is integrated as standard, only one other data interface can be installed and operated

KCP GLP SUM PERCENT TO	3) (***) COO
70	
	L MOVE IP 65 MULTI DMS 1 DAY 2 DAY
OPTION FACTORY	G

Model	Weighing capacity	Readability	Verification value	Minimal load	Net weight approx.	Weighing plate	Price excl. of VAT	Verifica		ptions DAkkS Calib	r. Cert.
KERN	[Max] kg	[d] g	[e] g	[Min] g	kg		ex works €	MIII KERN	€	DAkkS KERN	€
Multi-ran	ge balance with	•		reasing load it s ully removed, th		•	•	0 0	ange [Ma	x] and readout [d	[[
IOC 6K-4*	3 6	0,1 0,2	-	20 40	6	В	390,-	-	-	963-128	118,-
IOC 10K-4*	6 15	0,2 0,5	=	40 100	6	А	380,-	-	-	963-128	118,-
100 401/ 41 #		00105		10 100			400			0/0/100	440

IOC 10K-4*	6 15	0,2 0,5	-	40 100	6	Α	380,-	-	-	963-128	118,-
IOC 10K-4L*	6 15	0,2 0,5	-	40 100	8	С	420,-	-	-	963-128	118,-
IOC 30K-4*	15 30	0,5 1	-	100 200	8	C	420,-	-	-	963-128	118,-
IOC 60K-3*	30 60	1 2	-	200 400	8	С	430,-	-	-	963-129	146,-
IOC 60K-3L*	30 60	1 2	-	200 400	12	D	510,-	-	-	963-129	146,-
IOC 100K-3*	60 150	2 5	-	400 1000	12	D	520,-	-	-	963-129	146,-
IOC 100K-3L*	60 150	2 5	-	400 1000	22	E	700,-	-	-	963-129	146,-
IOC 300K-3*	150 300	5 10	-	1000 2000	22	E	720,-	-	-	963-129	146,-
IOC 600K-2*	300 600	10 20	-	2000 4000	32	F	870,-	-	-	963-130	205,-
			Multi-ı	range balance with	out high-re	esolution disp	lay				
IOC 6K-3M*	3 6	1 2	1 2	20 40	6	В	390,-	965-228	84,-	963-128	118,-
100 (01/ 01/				40 1 400	,			0/5 000	~ .	0/0/00	

							,				
IOC 6K-3M*	3 6	1 2	1 2	20 40	6	В	390,-	965-228	84,-	963-128	118,-
IOC 10K-3M*	6 15	2 5	2 5	40 100	6	Α	335,-	965-228	84,-	963-128	118,-
IOC 10K-3LM*	6 15	2 5	2 5	40 100	8	C	405,-	965-228	84,-	963-128	118,-
IOC 30K-3M*	15 30	5 10	5 10	100 200	8	C	410,-	965-228	84,-	963-128	118,-
IOC 60K-2M*	30 60	10 20	10 20	200 400	8	C	410,-	965-229	110,-	963-129	146,-
IOC 60K-2LM*	30 60	10 20	10 20	200 400	12	D	500,-	965-229	110,-	963-129	146,-
IOC 100K-2M*	60 150	20 50	20 50	400 1000	12	D	500,-	965-229	110,-	963-129	146,-
IOC 100K-2LM*	60 150	20 50	20 50	400 1000	22	E	700,-	965-229	110,-	963-129	146,-
IOC 300K-2M*	150 300	50 100	50 100	1000 2000	22	E	720,-	965-229	110,-	963-129	146,-
IOC 600K-1M*	300 600	100 200	100 200	2000 4000	32	F	840,-	965-230	158,-	963-130	205,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

It is essential that a verified balance which transfers measurements to external devices using an interface, has an alibi memory (KIB-A13).

It is not possible to upgrade later.











The new IFC: Robust industrial scales with up to three interfaces, also with optional verification

Features

- Tough industry standard suitable for use in harsh industrial applications
- · Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- · Industry 4.0: Data and control commands can be exchanged through the KERN Universal Port using one interface, which can be connected to the housing, or through three parallel interfaces using the KUP Extension box. The following interfaces are available as an option: RS-232, USB, Ethernet, WiFi, Bluetooth
- Each interface can be set up separately, e.g.:
- Interface 1 (WiFi): Continuous sending to a PC for documentation of a process
- Interface 2 (RS 232): Print stable weight
- Interface 3 (analogue module): Controlling a device when the target weight is reached
- · For further information on KUP and KCP see page 20/21
- · Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further
- Data guery and remote control of the balance using a computer or CRM/ERP systems using the KERN Communication Protocol

- · Simplified battery replacement through easilyaccessible housing. Particularly advantageous for models with optional verification, as the verification seal remains intact
- In Platform: weighing plate of stainless steel, painted steel base, silicone-coated aluminium load cell with protection against dust and water splashes IP65
- · Benchtop stand incl. wall mount for display device as standard
- · Protective working cover included with delivery
- · With Real Time Clock as standard: Enables you to log the weighing results with accurate time information. Even if the power supply is interrupted, the balance can continue to work with the correct time







Technical Data

- · Large backlit LCD display, digit height 50 mm
- · Weighing plate dimensions, stainless steel
 - A W×D×H 400×300×114 mm
 - **B** W×D×H 500×400×124 mm
 - W×D×H 650×500×136 mm
 - D W×D×H 800×600×189 mm
- · Dimensions of display device W×D×H 220×145×65 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover, scope of delivery 5 items, KERN YBA-A18S05, € 44,-
- · Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, € 35,-
- 2 Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, € 160,-
- · Column to screw on to the platform, for models with weighing plate size
- A, B, C Height of stand approx. 330 mm, KERN IFB-A01, € 68,-
- B, C Height of stand approx. 600 mm, KERN IFB-A02, € 81,-
- · External data interface RS-232, interface cable included, KERN KUP-01, € 60,-
- · External data interface USB, interface cable included, KERN KUP-03, € 75,-
- · External data interface Ethernet, KERN KUP-04, € 115,-
- · External data interface WiFi, interface cable included, KERN KUP-05, € 75,-

- · Bluetooth interface adapter, KERN KUP-06, € 99,-
- Analogue module, KERN KUP-08, € 170,-
- 3 Extension box for connecting up to three interfaces in parallel, KERN KUP-13, € 98,-*
- · Memory module (alibi memory), KERN YMM-04, € 80,-
- · ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01, € 60,-
- · Signal lamp for visual support of weighing with tolerance range, connection is only possible in combination with KUP-01 (RS 232 interface), KERN CFS-A03, € 310,-
- 4 Roller conveyor attachment, with smoothrunning, hot-dip galvanised steel rollers with ball bearings, robust aluminium profile frame, for models ≥ 30 kg [Max] with weighing plate size
- A KERN YRO-01, € 830,-
- **B** KERN YRO-02, € 870,-
- C KERN YRO-03, € 1200,-

STANDARD IP 65 OPTION FACTORY

*Note: In addition to the RS-232 data interface, which is integrated as standard, only one other data interface can be installed and operated

Model		Weighing	Readability	Verification	Minimal	Net	Weighing	Price			Options	
		capacity		value	load	weight	plate	excl. of VAT	Verifica	ation	DAkkS Calibr. C	Certificate
		[Max]	[d]	[e]	[Min]	approx.		ex works	MIII		DAkkS	
KERN		kg	g	g	g	kg		€	KERN	€	KERN	€
IFC 10K-4L	NEW	15	0,5	-	-	8	А	550,-	-	-	963-128	118,-
IFC 30K-3	NEW	30	1	-	-	8	Α	570,-	-	-	963-128	118,-
IFC 60K-3	NEW	60	2	-	-	8	А	590,-	-	-	963-129	146,-
IFC 60K-3L	NEW	60	2	=	-	11	В	770,-	-	-	963-129	146,-
IFC 600K-2	NEW	600	20	-	-	44	D	1210,-	-	-	963-130	205,-

Multi-division balance, with increasing or decreasing load, it switches automatically

to the next largest or smallest weighing range [Max] and readout [d].

IFC 30K5DM	NEW	15 30	5 10	5 10	100 200	8	А	5/0,-	905-228	84,-	963-128	118,-
IFC 60K10DM	NEW	30 60	10 20	10 20	200 400	8	Α	590,-	965-229	110,-	963-129	146,-
IFC 60K10DLM	NEW	30 60	10 20	10 20	200 400	11	В	770,-	965-229	110,-	963-129	146,-
IFC 150K20DM	NEW	60 150	20 50	20 50	400 1000	11	В	720,-	965-229	110,-	963-129	146,-
IFC 150K20DLM	NEW	60 150	20 50	20 50	400 1000	20	С	940,-	965-229	110,-	963-129	146,-
N			/	· · ·			0011/01/5		1 1 11			

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.



High-resolution industrial scale in heavy version, now also up to [Max] 600 kg, verification optional

Features

- In Platform: weighing plate of stainless steel, painted steel base, silicone-coated aluminium load cell with protection against dust and water splashes IP65
- · Benchtop stand incl. wall mount for display device as standard
- · Protective working cover included with delivery

Technical data

- · Backlit LCD display, digit height 52 mm
- · Weighing plate dimensions, stainless steel, W×D×H
- A 230×230×103 mm B 300×240×105 mm
- **C** 400×300×114 mm **D** 500×400×124 mm
- **■** 650×500×136 mm **■** 800×600×189 mm
- Dimensions of display device W×D×H 250×160×58 mm
- · Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C





Accessories

- · Protective working cover over the display device, scope of delivery: 5 items, KERN KFB-A02S05, € 44,-
- 2 Stand to elevate display device, for models with weighing plate size
- A-E: Height of stand approx. 330 mm, KERN IFB-A01, **€ 68,-**
- D-F: Height of stand approx. 600 mm, KERN IFB-A02, € 81,-
- A-F: Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, € 160,-
- · Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01, € 40,-
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification. When installing the Bluetooth data interface, the RS-232 data interface can no longer be used, KERN KFB-A03, € 160,-
- · Analogue module, not possible in combination with signal lamp or rechargeable battery pack 0-10 V: KERN KFB-A04, € 170,-4-20 mA: KERN KFB-A05, € 170,-

STANDARD FACTORY * DARKS +3 DAYS

Model	Weighing	Readability	Verification	Minimal load	Net weight	Weighing	Price			Options	
	capacity	-	value		_	plate	excl. of VAT	Verifica	ation	DAkkS Calibr. C	ertificate
	[Max]	[d]	[e]	[Min]	approx.		ex works	MIII		DAkkS	
KERN	kg	g	g	g	kg		€	KERN	€	KERN	€
IFB 3K-4*	3	0,1	-	-	4,6	Α	455,-	-	-	963-127	98,-
IFB 6K-4S*	6	0,2	-	-	4,6	Α	390,-	-	_	963-128	118,-
IFB 6K-4*	6	0,2	-	-	5,0	В	400,-	-	-	963-128	118,-
IFB 10K-4*	15	0,5	-	-	5,0	В	415,-	-	_	963-128	118,-
IFB 10K-4L*	15	0,5	-	-	7	C	495,-	-	_	963-128	118,-
IFB 30K-3*	30	1	-	-	7	C	475,-	-	-	963-128	118,-
IFB 60K-3*	60	2	-	-	8	C	470,-	-	_	963-129	146,-
IFB 60K-3L*	60	2	-		11	D	650,-	-	-	963-129	146,-
IFB 100K-3*	150	5	-	-	11	D	650,-	-	_	963-129	146,-
IFB 100K-3L*	150	5	-		18	Е	800,-	-	-	963-129	146,-
IFB 300K-2*	300	10	_	_	20	E	920 -	_	_	963-129	146 -

40 Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d]

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		and wn	ien the load is	s tully removed, t	ne balanc	e switches bac	ck to the lov	ver range			
IFB 6K-3SM*	3 6	1 2	1 2	20 40	4,6	Α	390,-	965-228	84,-	963-128	118,-
IFB 6K1DM*	3 6	1 2	1 2	20 40	6	В	400,-	965-228	84,-	963-128	118,-
IFB 15K2DM*	6 15	2 5	2 5	40 100	5,0	В	435,-	965-228	84,-	963-128	118,-
IFB 15K2DLM*	6 15	2 5	2 5	40 100	7	C	550,-	965-228	84,-	963-128	118,-
IFB 30K5DM*	15 30	5 10	5 10	100 200	8	C	520,-	965-228	84,-	963-128	118,-
IFB 60K10DM*	30 60	10 20	10 20	200 400	8	C	520,-	965-229	110,-	963-129	146,-
IFB 60K10DLM*	30 60	10 20	10 20	200 400	11	D	670,-	965-229	110,-	963-129	146,-
IFB 150K20DM*	60 150	20 50	20 50	400 1000	11	D	650,-	965-229	110,-	963-129	146,-
IFB 150K20DLM*	60 150	20 50	20 50	400 1000	18	E	870,-	965-229	110,-	963-129	146,-
IFB 300K50DM*	150 300	50 100	50 100	1000 2000	20	E	870,-	965-229	110,-	963-129	146,-
IFB 600K-1M*	300 600	100 200	100 200	2000 4000	44	E	1310,-	965-230	158,-	963-130	205,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

IFB 600K-2

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963-130

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- · Protective working cover over the display device, scope of delivery: 5 items, KERN DE-A12S05, € 44,-
- 11 Column to screw on to the platform for models with weighing plate size **B**, **C**, height of stand approx. 480 mm, KERN DE-A10, € 120,for models with weighing plate size **G**, height of stand approx. 600 mm, KERN DS-A03, € 140,-
- · Mount to fasten the display device to the platform, for models with weighing plate size **B**, **C**, **D**, **E**, KERN DE-A11N, **€ 40,-**
- Wall mount for display device, KERN DS-A02, € 33,-
- 2 Set for underfloor weighing, consists of platform, bow, hook, only for models with weighing plate **B**, KERN DS-A01, € 230,-
- · External data interface RS-232, interface cable included, KERN KUP-01, € 60,-
- · External data interface USB, interface cable included, KERN KUP-03, € 75,-
- · External data interface Ethernet, KERN KUP-04, € 115,-
- · External data interface WiFi, interface cable included, KERN KUP-05, € 75,-
- · Bluetooth interface adapter, KERN KUP-06, € 99,-
- · Extension box for connecting up to three interfaces in parallel, KERN KUP-13, € 75,-
- · Further details, plenty of further accessories and suitable printers see Accessories



Precision industrial scale with laboratory accuracy, ideal for the diverse possibilities of Industry 4.0 applications

Features

- · High-capacity precision balance, ideal for high volume or heavy samples to be weighed with a high degree of accuracy
- · Numerical subtraction of tare weight for known container weight. Useful for checking fill-levels
- · Precise counting: The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- Freely programmable weighing unit, e.g. display direct in special units such as length of wire g/m, surface weight g/m², or else
- · KERN Universal Port (KUP): permits the connection of an external KUP interface adapter, such as, for example, RS-232, USB, Bluetooth, WiFi or Ethernet, for the exchange of data and control commands, without any installation outlay

- · KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers
- · Protective working cover included with delivery

Technical data

- · Large backlit LCD display, digit height 21 mm
- · Weighing plate dimensions, stainless steel
- A W×D×H 230×230×103 mm
- B W×D×H 308×318×75 mm
- © W×D×H 500×400×125 mm, see larger picture
- Dimensions of display device W×D×H 225×115×60 mm
- Permissible ambient temperature -10 $^{\circ}\text{C}/40~^{\circ}\text{C}$

Accessories

· Internal rechargeable battery pack, operating time up to 24 h with backlight, charging time approx. 8 h, KERN YKR-01, € 35,-

























































Model	Weighing capacity	Readability	Smallest part weight	Resolution	Cable length	Net weight	Weighing plate	Price excl. of VAT	Options DAkkS Calibr. C	
	[Max]	[d]	(Normal)		approx.	approx.	plate	ex works	DAKKS Calibi. C	ertificate
KERN	kg	g	g/piece	Points	m	kg		€	KERN	€
DS 3K0.01S	3	0,01	0,1	300.000	2	4,2	Α	710,-	963-127	98,-
DS 5K0.05S	5	0,05	0,1	100.000	2	4,2	A	640,-	963-127	98,-
DS 8K0.05	8	0,05	0,5	160.000	2	8	В	610,-	963-128	118,-
DS 10K0.1S	10	0,1	1	100.000	2	4,2	A	640,-	963-128	118,-
DS 16K0.1	16	0,1	1	160.000	2	8	В	620,-	963-128	118,-
DS 20K0.1	20	0,1	1	200.000	2	8	В	640,-	963-128	118,-
DS 30K0.1	30	0,1	1	300.000	2	8	В	680,-	963-128	118,-
DS 30K0.1L	30	0,1	1	300.000	0,6	19	C	1150,-	963-128	118,-
DS 36K0.2	36	0,2	1	180.000	0,6	10	В	620,-	963-128	118,-
DS 36K0.2L	36	0,2	1	180.000	0,6	19	C	1070,-	963-128	118,-
DS 60K0.2	60	0,2	2	300.000	0,6	19	C	1150,-	963-129	146,-
DS 65K0.5	65	0,5	2	130.000	0,6	19	C	1080,-	963-129	146,-
DS 100K0.5	100	0,5	5	200.000	0,6	19	C	1140,-	963-129	146,-
DS 150K1	150	1	10	150.000	0,6	19	C	1140,-	963-129	146,-











Convenience for industry:

Stainless steel platform scales with up to four interfaces and intuitive operation, also with optional verification

Features

- Tough industry standard suitable for use in harsh industrial applications
- · Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- Industry 4.0: The exchange of data and control commands is optional using up to four interfaces to suit individual requirements: two wired connections (RS 232, Ethernet, USB or analogue module) and two wireless connections (WiFi or Bluetooth)
- · Each interface can be set up separately, e.g.:
- Interface 1 (WiFi): Continuous sending to PC for documentation of a process
- Interface 2 (RS-232): Print stable weight
- Interface 3 (analogue module): Controlling a device when the target weight is reached
- Interface 4 (Bluetooth): Continuous sending to a tablet to monitor a process

- · Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further
- · Data query and remote control of the balance using a computer or CRM/ERP systems using the KERN Communication Protocol
- In Platform: weighing plate of stainless steel, painted steel base, silicone-coated aluminium load cell with protection against dust and water splashes IP65
- · Superior display size: digit height 48 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- 2 Display device: stainless steel, protection against dust and water splashes IP68, integrated power supply

Technical data

- · Large backlit LCD display, digit height 48 mm
- · Weighing plate dimensions, stainless steel
- A W×D×H 300×240×105 mm
- B W×D×H 400×300×114 mm, see larger picture
- W×D×H 500×400×124 mm
- **D** W×D×H 650×500×136 mm
- · Dimensions of display device W×D×H 232×150×80 mm
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

DAkkS Calibr. Certificate

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KERN 963-128

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Accessories

- · Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, € 35,-
- · Stand to elevate display device 3 Height of stand approx. 330 mm,

KERN IXC-A01, € 118,-

- 4 Height of stand approx. 600 mm, not suitable for models with weighing plate size A, KERN IXC-A02, € 118,-
- · Internal data interface RS-232, interface cable included, KERN KUM-01, € 120,-
- · Internal data interface USB, interface cable included, KERN KUM-03, € 120,-
- · Internal data interface Ethernet, interface cable included, KERN KUM-04, € 165,-

- · Internal data interface WiFi, KERN KUM-05, € 95,-
- · Internal data interface Bluetooth, KFRN KUM-06. € 135.-
- · Analogue module, KERN KUM-08, € 145,-
- · Memory module with real time clock (alibi memory), KERN YMM-06, € 160,-
- · ESD drain to protect against electrostatic discharge e.g. for electrostatically-charged weighing objects or people who work with the scale, KERN YGR-01, € 60,-
- · Signal lamp for visual support of weighing with tolerance range, (only in combination with Data interface RS-232 KERN KUM-01), KERN CFS-A03, € 310,-

- · Roller conveyor attachment, with smooth-running, hot-dip galvanised steel rollers with ball bearings, robust aluminium profile frame for models ≥ 30 kg [Max] with weighing plate size
- B KERN YRO-01, € 830,-
- C D KERN YRO-02, € 870,-
- KERN YRO-03, € 1200,-
- · Further details, plenty of further accessories and suitable printers see Accessories

*Note: only two wired connections (RS-232, Ethernet, USB or analogue module) and two wireless connections (WiFi, Bluetooth) can be used at the same time

STANDARD

FACTORY



IXC 30K-3L

IXC 60K-3

IXC 60K-3L IXC 100K-3

IXC 100K-3L

IXC 300K-3







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44	-			1	DAkkS
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ı					

ALIBI RS 232	USB *	BT WIFI	ANALOG LAN	ACCU +3 DAYS							
Model		Weighing capacity	Readability	Verification value	Minimal load	Net weight	Weighing plate	Price excl. of VAT	Verifica	tion	Options DAkkS
		[Max]	[d]	[e]	[Min]	approx.		ex works	MIII		DA
KERN		kg	g	g	g	kg		€	KERN	€	KE
IXC 6K-4	NEW	6	0,2	_	_	6	A	660,-	-	-	963-
IXC 10K-4	NEW	15	0,5	-	-	6	Α	680,-	-	-	963-
IXC 10K-4L	NEW	15	0,5	-	-	11	В	740,-	-	-	963-
IXC 30K-3	NEW	30	1	-	-	11	В	720,-	-	-	963-

300 36 D 1200,-963-129 Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range

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IXC 6K-3M	NEW	3 6	1 2	1 2	20 40	6	Α	660,-	965-228	84,-	963-128	118,-
IXC 10K-3M	NEW	6 15	2 5	2 5	40 100	6	Α	680,-	965-228	84,-	963-128	118,-
IXC 10K-3LM	NEW	6 15	2 5	2 5	40 100	11	В	740,-	965-228	84,-	963-128	118,-
IXC 30K-3M	NEW	15 30	5 10	5 10	100 200	11	В	720,-	965-228	84,-	963-128	118,-
IXC 30K-3LM	NEW	15 30	5 10	5 10	100 200	22	C	860,-	965-228	84,-	963-128	118,-
IXC 60K-2M	NEW	30 60	10 20	10 20	200 400	11	В	780,-	965-229	110,-	963-129	146,-
IXC 60K-2LM	NEW	30 60	10 20	10 20	200 400	22	C	870,-	965-229	110,-	963-129	146,-
IXC 100K-2M	NEW	60 150	20 50	20 50	400 1000	22	C	850,-	965-229	110,-	963-129	146,-
IXC 100K-2LM	NEW	60 150	20 50	20 50	400 1000	36	D	1010,-	965-229	110,-	963-129	146,-
IXC 300K-2M	NEW	150 300	50 100	50 100	1000 2000	36	D	1200,-	965-229	110,-	963-129	146,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.















Platform scale with IP65 dust and spray protection, verification optional

Features

- Platform scale protected to IP65 with stainless steel display device, for industrial applications, hygienic and easy to clean
- 1 Platform: weighing plate of stainless steel, painted steel base, silicone-coated aluminium load cell with protection against dust and water splashes IP65
- Display device: stainless steel, protection against dust and water splashes IP65, flexible positioning, e.g. free-standing or mounted to the wall, for details see KERN KFE-TM
- · Weighing with tolerance range (checkweighing): a visual and audible signal helps with portioning, dispensing or grading
- · Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value

Technical data

- · Large backlit LCD display, digit height 22 mm
- · Weighing plate dimensions, stainless steel
 - A W×D×H 300×240×105 mm, see larger picture
- **B** W×D×H 400×300×114 mm
- **G** W×D×H 500×400×124 mm
- **D** W×D×H 650×500×136 mm
- · Dimensions of display device W×D×H 195×120×70 mm
- · Rechargeable battery pack integrated, as standard, operating time up to 35 h without backlight, charging time approx. 12 h
- Cable length of display device approx. 3 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Stand to elevate display device
- 2 for models with weighing plate size A-D: Height of stand approx. 200 mm, KERN SFE-A01, € 75,-
- 2 for models with weighing plate size **B**-**D**: Height of stand approx. 400 mm, KERN SFE-A02, € 75,-
- 3 for models with weighing plate size **C**-**D**: Height of stand approx. 600 mm, KERN SFE-A03, € 95,-
- · Tare pan made from stainless steel, ideal for weighing loose small parts as well as fruits, vegetables, etc., overall dimensions W×D×H 400×300×45 mm, KERN RFS-A02, € 75,-

STANDARD





















	_										
Model	Weighing capacity	Readability	Verification value	Minimal load	Net weight	Weighing plate	Price excl. of VAT	Verifica	ntion	Options DAkkS Calibr. C	ertificate
	[Max]	[d]	[e]	[Min]	approx.	·	ex works	MIII		DAkkS	
KERN	kg	g	g	g	kg		€	KERN	€	KERN	€
SFE 6K-3NM	6	2	2	40	6	Α	490,-	965-228	84,-	963-128	118,-
SFE 10K-3NM	15	5	5	100	6	Α	475,-	965-228	84,-	963-128	118,-
SFE 10K-3LNM	15	5	5	100	8	В	560,-	965-228	84,-	963-128	118,-
SFE 30K-2NM	30	10	10	200	6	Α	490,-	965-228	84,-	963-128	118,-
SFE 60K-2NM	60	20	20	400	8	В	550,-	965-229	110,-	963-129	146,-
SFE 60K-2LNM	60	20	20	400	12	C	670,-	965-229	110,-	963-129	146,-
SFE 100K-2NM	150	50	50	1000	8	В	580,-	965-229	110,-	963-129	146,-
SFE 100K-2LNM	150	50	50	1000	12	C	650,-	965-229	110,-	963-129	146,-
SFE 100K-2XLNM	150	50	50	1000	22	D	930,-	965-229	110,-	963-129	146,-
SFE 300K-1LNM	300	100	100	2000	22	D	910,-	965-229	110,-	963-129	146,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

FLOOR SCALES, PALLET SCALES, DRIVE-THROUGH SCALES

From incoming goods to production and shipping – our modern, powerful floor scales can be used everywhere and intuitively. The many clever functions will assist you in carrying out processes effectively and economically, all while meeting high requirements and saving resources.

In our floor scales product category, we offer our customers a carefully coordinated product range in the weighing range from 300 to 6,000 kg. Choose between affordable entry level models, practical built-in solutions or Premium products made from stainless steel and verified. Our floor scales stand out due to their durable industrial quality as well as reliable protection against dust and water splashes.

Industrial scales for heavy loads

When weighing large containers and heavy goods, scales must overcome different challenges. As well as correspondingly large weighing ranges, a high level of stability and sturdiness is necessary, in order to withstand the maximum loads acting on the weighing plate. Our floor scales are perfectly suited for this task, for example through generously sized struts and material thicknesses, mobile stored adjustable feet for the protection of the load cells, IP67 protection against dust and water splashes or a convenient disconnect device bet ween the display device and platform. The latter means that you can install a verified scale in a packing and dispatch bench or a pit frame for barrier-free access at a later date. Large LCD displays make it easier to read the display even if the angle of view is not ideal. We also have pallet scales, weighing beams and drive-through scales available for versatile use.

Our recommendation: High-resolution KERN BIC floor scale with $2\times3,000$ [d] at the best price-to-performance ratio.

Easy integration through digital interfaces

Thanks to interfaces such as RS-232, USB, Bluetooth, WiFi, Ethernet the scale can easily be connected to existing networks. Data exchange between scale and PC or printer is easy and reliable. The standardised KCP interface (Kern Communication Protocol) takes over the searching und remote control of the scale using external control devices or computers. KCP enables you to recall and control the relevant parameters and device functions and is also compatible with the MT-SICS protocol in most cases.

Our recommendation: High-resolution multi-range pallet scale KERN UID with EC type approval [M] and various data interfaces.

The KERN calibration and verification service

In order to fulfil quality requirements in accordance with DIN EN ISO 9000ff and other standards, we can offer our customers DAkkS calibration. Calibration ensures correct, usable weighing results and makes the floor scale into a reliable measuring and testing instrument. When calibrating, deviations in the display will be identified and documented. The main points to remember are: DAkkS calibration is always sensible, when checking equipment is to be used in a QM process. While calibration is not legally regulated, verification is mandatory in different applications for example:

- In commercial trade, if the price of goods are determined by weighing results.
- In the production of pre-packaged goods
- In the pharmaceutical industry
- For official purposes.

Our recommendation: BID floor scale with EC type approval [M] and the best price-to-performance ratio – now also as a high-resolution multi-range balance.

Individual solutions for maximum efficiency

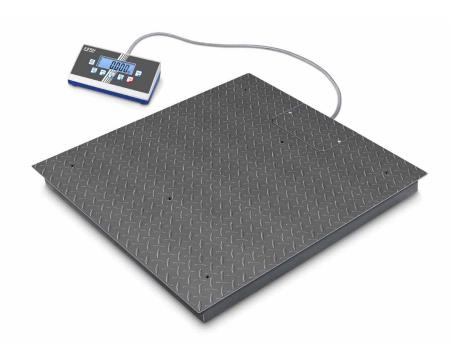
The weighing ranges of bench counting scales are often not sufficient to count large quantities, units or items on pallets. This is where high-performance counting systems come into their own, as these combine a high-precision reference scale with a high-capacity bulk scale, such as for example a floor scale, pallet scale or drive-through scale.

If you have special requirements, you can also configure your ideal scale easily and quickly so that it meets your needs. We will put your weighing combination together for you, using the components you have selected and including verification. Please contact your personal customer advisor for further information!

Quick-Finder Floor Scales/Pallet Scales/Drive-through Scales

Readability	Weighing capacity	Weighing plate	Model	Price excl. of VAT	Page	2 DAYS	M	RS 232	USB	₿	(in wifi	LAN	KCP PROTOCOL	PCS	-√+ ③ Ͽ»	ACCU
[d] g	[Max] kg	W×D mm	KERN	ex works €			For		planatio							
50 100	300 600	1000×1000×108	BID 600K-1DS	1220,-	122	2	. 01	uncx	O	0	0	0	•	•	<u>шр</u>	0
50 100	300 600	1200×1500×108	BID 600K-1D5	1650,-	122	2		•	0	0	0	0	•	•	-	0
100	300	1000×1000×40	NIB 300K-1	870,-	132	2										
100 200	300 600	1000×1000×108	BIC 600K-1S	920,-	121	2										-
100 200	300 600	1000×1000×108	BID 600K-1DSM	1220,-	122	2	0	•	0	0	0	0	•	•	•	0
100 200	300 600	1195×840×110	UID 600K-1DM	1280,-	129		0	•	0	0	0	0	•	•	•	0
100 200	300 600	1200×1500×108	BIC 600K-1	1340,-	121	2										
100 200	300 600	1200×1500×108	BID 600K-1DM	1650,-	122	2	0	•	0	0	0	0	•	•	•	0
100 200	600 1500	1000×1000×108	BID 1T-4DS	1250,-	122	2		•	0	0	0	0	•	•	•	0
100 200	600 1500	1200×1500×108	BID 1T-4D	1650,-	122	2		•	0	0	0	0	•	•	•	0
200	600	800×120×84	UFA 600K-1S	1140,-	127	2		•		0			•	•	•	0
200	600	1000×1000×40	NIB 600K-2	870,-	132	2										
200	600	1000×1000×85	BFB 600K-1SNM	1380,-	124	2	0	•		0			•	•	•	0
200	600	1000×1000×90	BFN 600K-1SM	2900,-	126	2	0	0		0			•	•	•	•
200	600	1000×1000×108	BID 600K-1SM	1220,-	122	2	0		0	0	0	0		•		0
200	600	1190×840×90	UFB 600K200M	1250,-	130	2	0	•		0			•	•	•	0
200	600	1195×840×110	UIB 600K-1	990,-	128	2										
200	600	1195×840×110	UID 600K-1M	1220,-	129	2	0	•	0	0	0	0	•	•	•	0
200	600	1200×1500×108	BID 600K-1M	1600,-	122	2	0	•	0	0	0	0	•	•	•	
200	600	1360×850×90	UFN 600K200IPM	1870,-	131	2		0					•		•	•
					-								•	•	•	
200	600	1500×1250×85	BFB 600K-1NM	1910,-	124	2				0						
200	600	1600×1200×80	NFB 600K200M	1850,-	133	2	0	•		0			•	•	•	0
200	600	1600×1200×80	NFN 600K-1M	3940,-	134	2	0	0		0			•	•	•	•
200	600	1800×1400×80	NFB 600K200LM	2150,-	133	2	0	•		0			•	•	•	0
200 500	600 1500	1000×1000×108	BIC 1T-4S	920,-	121	2					,				,	
200 500	600 1500	1000×1000×108	BID 1T-4DSM	1250,-	122	2	0	•	0	0	0	0	•	•	•	0
200 500	600 1500	1190×840×110	UID 1500K-1DM	1260,-	129	2	0	•	0	0	0	0	•	•	•	0
200 500	600 1500	1200×1500×108	BIC 1T-4	1300,-	121	2										
200 500	600 1500	1200×1500×108	BID 1T-4DM	1650,-	122	2	0	•	0	0	0	0		•	•	0
200 500	1500 3000	1200×1500×108	BID 3T-3D	1650,-	122	2		•	0	0	0	0	•	•	•	0
200 500	1500 3000	1500×1500×108	BID 3T-3DL	1900,-	122	2		•	0	0	0	0	•	•	•	0
500	1500	1000×1000×85	BFB 1T-4SNM	1380,-	124	2	0	•		0			•	•	•	0
500	1500	1000×1000×90	BFN 1T-4SM	2900,-	126	2	0	0		0				•	•	•
500	1500	1000×1000×108	BID 1T-4SM	1220,-	122	2	0	•	0	0	0	0		•	•	0
500	1500	1190×840×90	UFB 1.5T0.5M	1250,-	130	2	0	•		0			•	•	•	0
500	1500	1190×840×110	UID 1500K-1M	1220,-	129	2	0		0	0	0	0	•	•	•	0
500	1500	1195×840×110	UIB 1.5T-4	990,-	128	2										
500	1500	1200×1000×108	BID 1T-4EM	1300,-	122	2	0	•	0	0	0	0	•	•	•	0
500	1500	1200×1500×108	BID 1T-4M	1600,-	122	2	0	•	0	0	0	0	•	•	•	0
500	1500	1270×170×85	UFA 1.5T0.5	1240,-	127	2		•		0			•	•	•	0
500	1500	1360×840×90	UFN 1.5T0.5IPM	1870,-	131	2	0	0					•		•	•
500	1500	1500×1250×85	BFB 1T-4NM	1910,-	124	2	0	•		0			•	•	•	0
500	1500	1500×1250×85	BFN 1.5T0.5M	3650,-	126	2	0	0		0				•	•	•
500	1500	1500×1500×108	BID 1T-4LM	1880,-	122	2	0	•	0	0	0	0	•	•	•	0
500	1500	1600×1200×80	NFB 1.5T0.5M	1850,-	133	2	0			0				•	•	0
500	1500	1600×1200×80	NFN 1.5T-4M	3910,-	134	2	0	0		0			•	•	•	•
500	1500	1800×1400×80	NFB 1.5T0.5LM	2150,-	133	2	0	•		0		-	•	•		
500 1000	1500 3000	1190×840×110	UID 3000K-0DM	1260,-	129	2	0	•	0	0	0	0	•	•	•	0
500 1000	1500 3000	1200×1500×108	BIC 3T-3	1300,-	121	2							-			
500 1000	1500 3000	1200×1500×108	BID 3T-3DM	1650,-	122	2	0	•	0	0	0	0	•	•	•	0
500 1000	1500 3000	1500×1500×108	BIC 3T-3L	1600,-	121	2										
500 1000	1500 3000	1500×1500×108	BID 3T-3DLM	1900,-	122	2	0	•	0	0	0	0	•	•	•	0
1000	3000	1195×840×110	UIB 3T-3	990,-	128	2		_		_				_	_	
1000	3000	1195×840×110	UID 3000K-0M	1250,-	129	2	0	•	0	0	0	0	•	•	•	0
1000	3000	1200×1500×108	BID 3T-3M	1600,-	122	2	0	•	0	0	0	0	•	•	•	0
1000	3000	1270×170×85	UFA 3T1	1240,-	127	2		•		0			•	•	•	0
1000	3000	1500×1250×85	BFB 3T-3NM	1910,-	124	2	0	•		0			•	•	•	0
1000	3000	1500×1250×85	BFN 3T-3M	4100,-	126	2	0	0		0			•	•	•	•
1000	3000	1500×1500×85	BFB 3T1LM	2200,-	124	2	0	•		0			•	•	•	0
1000	3000	1500×1500×108	BID 3T-3LM	1880,-	122	2	0	•	0	0	0	0	•	•	•	0
1000	3000	2000×120×90	UFA 3T-3L	1570,-	127	2		•		0			•	•	•	0
2000	6000	1200×160×115	UFA 6T-3	1610,-	127	2				0			•	•	•	0
2000	6000	1500×1500×130	BFB 6T-3M	2600,-	124	2	0			0			•	•	•	0
2000	6000	2000×160×115	UFA 6T-3L	2120,-	127	2		•		0			•	•	•	0

● Standard ○ Option











High-resolution floor scale with 2×3000 [d] and the best price-to performance ratio

Features

- 1 Weighing bridge out of anti-slip corrugated steel, 4 load cells, alloy steel, silicone-coated, IP67
- · Welded platform with screw holes to lift the scale for easy cleaning
- · Easy levelling of the weighing bridge as well as access to the junction box from above
- Simple and convenient 4-key operation
- · Wall mount for display device, standard
- 2 Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN - always one step ahead

Technical data

- · Large LCD display, digit height 25 mm
- · Weighing plate dimensions, steel, powder-coated
- A W×D×H 1000×1000×108 mm
- **B** W×D×H 1200×1500×108 mm
- C W×D×H 1500×1500×108 mm
- Dimensions of display device W× ×H 235×114×51 mm
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 60 h
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover over the display device, scope of delivery: 5 items, KERN EOB-A04BS05, € 44,-
- 3 Pair of base plates to fix the weighing bridge to the floor, KERN BIC-A07, € 44,-
- Ascending ramp, steel, powder-coated, for models with weighing plate size
 - **A** 1000×1000×108 mm, KERN BIC-A01, € **395,**-
 - B 1200×1000×108 mm, KERN BIC-A02, € 500,-© 1500×1000×108 mm, KERN BIC-A03, € 600,-
- 5 Stable pit frame, steel, powder-coated,
- for models with weighing plate size
- **A** 1088×1088×110 mm, KERN BIC-A04, € **350,-**
- **B** 1288×1588×110 mm, KERN BIC-A05, € 460,-
- **©** 1588×1588×110 mm, KERN BIC-A06, **€** 490,-

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

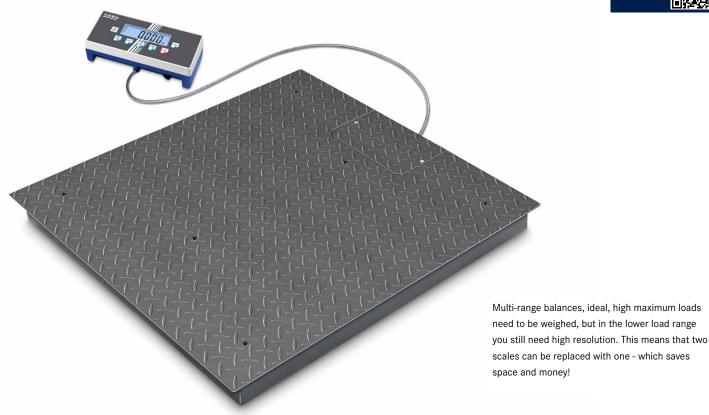






Model	Weighing capacity [Max]	Readability [d]	Weighing plate	Net weight approx.	Price excl. of VAT ex works	Option DAkkS Calibr. C DAkkS	
KERN	kg	kg		kg	€	KERN	€
BIC 600K-1S	300 600	0,1 0,2	А	70	920,-	963-130	205,-
BIC 600K-1	300 600	0,1 0,2	В	150	1340,-	963-130	205,-
BIC 1T-4S	600 1500	0,2 0,5	А	70	920,-	963-130	205,-
BIC 1T-4	600 1500	0,2 0,5	В	150	1300,-	963-130	205,-
BIC 3T-3	1500 3000	0,5 1	В	150	1300,-	963-132	550,-
BIC 3T-3L	1500 3000	0.5 1	C	155	1600,-	963-132	550

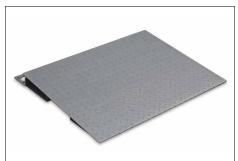




Floor scale with the best price-to-performance ratio – now also as high-resolution multi-range balance, verification optional



Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead



Access ramp incl. pair of base plates to facilitate access of e.g. wire cage trolleys, shelf trolleys, container trolleys, storage trolleys, sack trucks, transpallets, mobile containers, containers refuse



■ Verification plug, for verified balances this enables you to separate the display device and platform without affecting the verification, e.g. for installing the scale in a packing and dispatch table, pit frame etc. at a later date. Please order this at the same time as you purchase your scale

^{*}In addition to the RS-232 data interface, which is integrated as standard, only one other data interface can be installed and operated

[!] Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Features

- KERN BID 1T-4EM: Compact special size, especially for weighing europallets
- Display device: Plastic, protected against dust and water splashes IP65. for details see KERN KIR-TM
- Weighing bridge out of anti-slip corrugated steel, 4 load cells, alloy steel, silicone-coated, IP67
- Easy levelling of the weighing bridge as well as access to the junction box from above
- · Totalising of weights and piece counts
- Thanks to interfaces such as RS-232 or USB, WiFi, Bluetooth, Ethernet (optional), the scale can easily be connected to existing networks. Data exchange between the scale, PC or printer
- Searching and remote control of the balance
 using external control devices or computers with
 the KERN Communication Protocol (KCP). KCP
 is a standardised interface command structure
 for KERN balances and other instruments which
 allows you to recall and manage all relevant parameters and device functions. You can therefore
 simply connect KERN devices with KCP to computers, industrial control systems and other digital
 systems. In a large number of cases the KCP is
 compatible with the MT-SICS protocol.

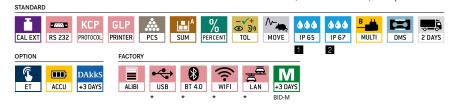
Technical data

- · Large LCD display, digit height 25 mm
- Weighing plate dimensions, steel, powder-coated, W×D×H
- ▲ 1000×1000×108 mm 1200×1000×108 mm
- Dimensions of display device W×D×H 268×115×80 mm
- · Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery
 5 items, KERN EOC-A01S05, € 55,-
- Pair of base plates to fix the weighing bridge to the floor, KERN BIC-A07, € 44,-
- Ascending ramp, steel, powder-coated, for models with weighing plate size
- A, B: 1000×1000×108 mm, KERN BIC-A01, € 395,-
- **G**: 1200×1000×108 mm, KERN BIC-A02, **€ 500,**–
- D: 1500×1000×108 mm, KERN BIC-A03, € 600,-
- Stable pit frame, Steel, powder-coated, to install the weighing bridge so you can drive straight on, for models with weighing plate size
 - A: 1088×1088×110 mm, KERN BIC-A04, € 350,-
- **B**: 1288×1088×110 mm, KERN BIC-A08, **€ 410,**-
- **©**: 1288×1588×110 mm, KERN BIC-A05, € **460,**-
- D: 1588×1588×110 mm, KERN BIC-A06, € 490,-
- Benchtop stand incl. wall mount for display device, KERN EOC-A04, € 33,-

- Internal rechargeable battery pack, operating time up to 43 h without backlight, charging time approx. 3 h, KERN KFB-A01, € 40,-
- USB data interface, for transferring weighing to the PC, printer etc., must be ordered at purchase, KERN KIB-A03, € 120,-
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, KERN KIB-A04, € 110,-
- WiFi interface for wireless connection of the balance to networks and WiFi capable devices, such as tablets, laptops or smartphones, continuous data transfer, must be ordered at purchase, KERN KIB-A10, € 130,-
- Ethernet data interface, to connect an IP-based Ethernet network, continuous data transfer, must be ordered at purchase, KERN KIB-A02, € 165,-
- Signal lamp, including interface, for visual support of weighing with tolerance range, must be ordered at purchase, KERN KIB-A06, € 470,-
- Alibi memory, for paperless archiving of the weighing results with ID no., gross/net/tare value, date and time, must be ordered at purchase, KERN KIB-A13, € 164,-
- Verification plug, for verified balances this enables you to separate the display device and platform without affecting the verification, e.g. for installing the scale in a packing and dispatch table, pit frame etc. at a later date. Please order this at the same time as you purchase your scale, KERN KIB-A12, € 164,-



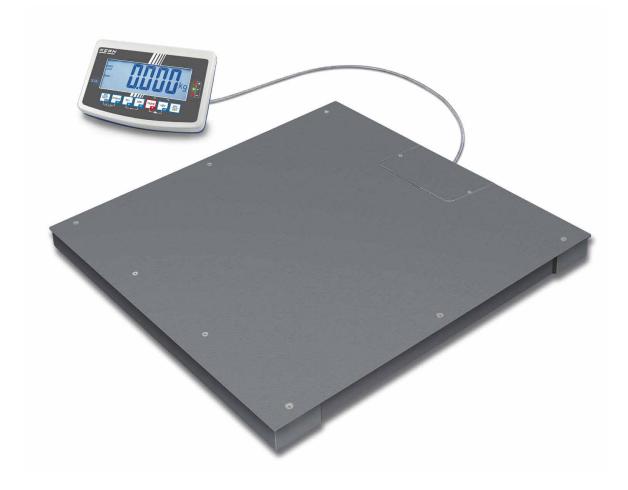
Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Weighing plate	Net weight approx.	Price excl. of VAT ex works	Verifica	ation	Options DAkkS Calibr. C DAkkS	ertificate
KERN	kg	kg	kg	kg		kg	€	KERN	€	KERN	€
			High-ı	resolution ve	ersions with	fine disp	olay				
BID 600K-1DS	300 600	0,05 0,1	-	-	A	70	1220,-	-	-	963-130	205,-
BID 600K-1D	300 600	0,05 0,1	-	-	С	150	1650,-	-	-	963-130	205,-
BID 1T-4DS	600 1500	0,1 0,2	-	-	A	70	1250,-	-	-	963-130	205,-
BID 1T-4D	600 1500	0,1 0,2	-	-	C	150	1650,-	-	-	963-130	205,-
BID 3T-3D	1500 3000	0,2 0,5	-	-	C	150	1650,-	-	-	963-132	550,-
BID 3T-3DL	1500 3000	0,2 0,5	-	-	D	155	1900,-	-	-	963-132	550,-
	Multi-range bala	nce, with incre	asing load it swi	itches auton	natically to	the next l	largest weighing	range [Ma	x] and rea	adout [d]	
		and when	the load is fully	removed, th	e balance s	switches	back to the low	er range			
BID 600K-1DSM	300 600	0,1 0,2	0,1 0,2	2 4	Α	70	1220,-	965-230	158,-	963-130	205,-
BID 600K-1DM	300 600	0,1 0,2	0,1 0,2	2 4	C	150	1650,-	965-230	158,-	963-130	205,-
BID 1T-4DSM	600 1500	0,2 0,5	0,2 0,5	4 10	А	70	1250,-	965-230	158,-	963-130	205,-

BID 1T-4DSM	600 1500	0,2 0,5	0,2 0,5	4 10	Α	70	1250,-	965-230	158,-	963-130	205,-
BID 1T-4DM	600 1500	0,2 0,5	0,2 0,5	4 10	C	150	1650,-	965-230	158,-	963-130	205,-
BID 3T-3DM	1500 3000	0,5 1	0,5 1	10 20	C	150	1650,-	965-232	235,-	963-132	550,-
BID 3T-3DLM	1500 3000	0,5 1	0,5 1	10 20	D	155	1900,-	965-232	235,-	963-132	550,-
BID 600K-1SM	600	0,2	0,2	4	Α	70	1220,-	965-230	158,-	963-130	205,-
BID 600K-1M	600	0,2	0,2	4	C	150	1600,-	965-230	158,-	963-130	205,-
BID 1T-4SM	1500	0,5	0,5	10	Α	70	1220,-	965-230	158,-	963-130	205,-
BID 1T-4EM	1500	0,5	0,5	10	В	85	1300,-	965-230	158,-	963-130	205,-
BID 1T-4M	1500	0,5	0,5	10	C	150	1600,-	965-230	158,-	963-130	205,-
BID 1T-4LM	1500	0,5	0,5	10	D	155	1880,-	965-230	158,-	963-130	205,-
BID 3T-3M	3000	1	1	20	C	150	1600,-	965-232	235,-	963-132	550,-
BID 3T-3LM	3000	1	1	20	D	155	1880,-	965-232	235,-	963-132	550,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

Note: For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame



Weighing bridge with screwed-on weighing plate (IP67) and XXL display device, verification optional



■ Weighing plate can be unscrewed - The weighing plate can be conveniently unscrewed for maintenance or cleaning purposes



Easy levelling of the weighing bridge as well as access to the junction box from above



Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead







Features

- 1 Weighing plate A, B, C, smooth surface, screwed on from the top, so it easy to remove, hygienic and easy to clean
- Weighing plate **D**, welded, steel chequer plate
- 2 4 silicone-coated steel load cells, IP67 dust and spray protection
- · Display device: for details see KERN KFB-TM
- · Benchtop stand incl. wall mount for display device as standard
- · Totalising of weights and piece counts
- · Protective working cover included with delivery

Technical data

- · Large backlit LCD display, digit height 52 mm
- · Weighing plate dimensions, steel, powder-coated
- A W×D×H 1000×1000×85 mm
- B W×D×H 1500×1250×85 mm
- C W×D×H 1500×1500×85 mm
- **D** W×D×H 1500×1500×130 mm
- · Dimensions of display device W×D×H 250×160×58 mm
- · Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover over the display device, scope of delivery: 5 items, KERN KFB-A02S05, € 44,-
- 3 Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, € 160,-
- · Pair of base plates to fix the weighing bridge to the floor, for models with weighing plate size
 - A, B, C KERN BFS-A06N, € 80,-
 - KERN BFS-A10, € 67,-
- 4 Ascending ramp, steel, lacquered, for models with weighing plate size
- **B**: 1250×870×95 mm, KERN BFS-A02N, € 450,-
- ©: 1500×760×85 mm, KERN BFS-A09N, € **590,**-
- D: 1500x880x122 mm, KERN BFS-A11, € 590,-
- 5 Stable pit frame, steel, lacquered, for models with weighing plate size
- A: 1085×1085×80 mm, KERN BFS-A03N, € 380,-
- B: 1335×1585×90 mm, KERN BFS-A04N, € 450,-
- G: 1500×1500×100 mm, KERN BFS-A08N, € 500,-
- · Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 10 h, must be ordered at purchase, KERN KFB-A01, € 40,-
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification. When installing the Bluetooth data interface, the RS-232 data interface can no longer be used, KERN KFB-A03, € 160,-

- · Analogue module, must be ordered at purchase, not possible in combination with signal lamp or rechargeable battery pack 0-10 V: KERN KFB-A04, € 170,-4-20 mA: KERN KFB-A05, € 170,-
- · Signal lamp for visual support of weighing with tolerance range, not possible in combination with analogue module, KERN CFS-A03, € 310,-
- · Large display with superior display size (only in combination with Data interface KERN KFN-A01), KERN YKD-A02, € 310,-
- · Cable with special length 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03, € 195,-
- · Further details, plenty of further accessories and suitable printers see Accessories

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD































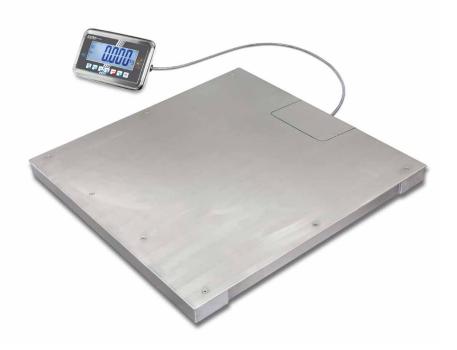




Model	Weighing capacity [Max]	Readability = Verification value [d] = [e]	Minimal load [Min]	Weighing plate	Net weight approx.	Price excl. of VAT ex works	Verifica	ition	Options DAkkS Calibr. C DAkkS	ertificate
KERN	kg	kg	kg		kg	€	KERN	€	KERN	€
BFB 600K-1SNM	600	0,2	4	Α	105	1380,-	965-230	158,-	963-130	205,-
BFB 600K-1NM	600	0,2	4	В	140	1910,-	965-230	158,-	963-130	205,-
BFB 1T-4SNM	1500	0,5	10	A	105	1380,-	965-230	158,-	963-130	205,-
BFB 1T-4NM	1500	0,5	10	В	140	1910,-	965-230	158,-	963-130	205,-
BFB 3T-3NM	3000	1	20	В	140	1910,-	965-232	235,-	963-132	550,-
BFB 3T1LM	3000	1	20	C	155	2200,-	965-232	235,-	963-132	550,-
BFB 6T-3M	6000	2	40	D	230	2600,-	965-232	235,-	963-132	550,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

Note: For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame



Stainless steel weighing bridge with screwed-on weighing plate (IP68) and stainless steel display device (IP65), verification optional

Features

- Tough industry standard suitable for use in harsh industrial applications
- Weighing plate screwed on from the top with stainless steel screws, so it's easy to remove, hygienic and easy to clean
- 11 Weighing bridge: stainless steel, extremely resistant to bending due to material thickness, 4 welded stainless steel load cells, IP68 dust and spray protection. Weighing bridge can also be delivered as component without the display device, for details see KERN KFP-V40
- Your support in a HACCP-compliant quality system
- 2 Easy levelling of the weighing bridge as well as access to the junction box from above
- 3 Display device: stainless steel, protection against dust and water splashes IP65. Ideal for industrial applications, hygienic and easy to clean. The display device can also be delivered as a component without the weighing bridge, for details see KERN KFN-TM

- · Benchtop stand incl. wall mount for display device as standard
- · Totalising of weights and piece counts
- · Internal rechargeable battery pack included with the delievery
- 4 Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN - always one step ahead

Technical data

- · Large backlit LCD display, digit height 52 mm
- · Weighing plate dimensions
- A W×D×H 1000×1000×90 mm
- **B** W×D×H 1500×1250×85 mm
- · Dimensions of display device W×D×H 266×165×96 mm
- · Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C









Accessories

- · Pair of base plates to fix the weighing bridge to the floor, KERN BFN-A03, € 95,-
- 5 Ascending ramp, stainless steel, for models with weighing plate size
- A 1000×750×85 mm, KERN BFN-A05, € 1250,-
- B 1250×750×85 mm, KERN BFN-A01, € 1450,-
- 6 Stable pit frame, stainless steel, for models with weighing plate size
 - **A** 1085×1085×80 mm, KERN BFN-A06, € 850,-
 - B 1335×1585×80 mm, KERN BFN-A02, € 1150,-
- Data interface RS-232, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01, € 225,-
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not possible in combination with verification or RS 232 data interface, KERN KFB-A03, € 160,-
- · Analogue module, must be ordered at purchase, not possible in combination with RS 232 data interface
- 0-10 V: KERN KFB-A04, € 170,-4-20 mA: KERN KFB-A05, € 170,-
- · Cable with special length 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03, € 195,-
- · Further details, plenty of further accessories and suitable printers see Accessories

Optionally configurable with IP68 display device on request

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD









































Model	Weighing ca-	Readability	Minimal load	Net weight	Weighing	Price			Options	
	pacity	= Verification value	fs. 41 . 1	approx.	plate	excl. of VAT	Verifica	ation	DAkkS Calibr. C	ertificate
	[Max]	[d] = [e]	[Min]			ex works	MIII		DAkkS	
KERN	kg	kg	kg	kg		€	KERN	€	KERN	€
BFN 600K-1SM	600	0,2	4	85	A	2900,-	965-230	158,-	963-130	205,-
BFN 1.5T0.5M	1500	0,5	10	120	В	3650,-	965-230	158,-	963-130	205,-
BFN 1T-4SM	1500	0,5	10	85	A	2900,-	965-230	158,-	963-130	205,-
BFN 3T-3M	3000	1	20	150	В	4100,-	965-232	235,-	963-132	550,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

Note: For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame



Highly versatile weighing beams (IP67) for large loads to 6 t

Features

- · Flexible solution for weighing large, bulky or long items, thanks to freely positionable weighing beams and a 5 m (!) long connecting cable between the beams
- · High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- 1 Weighing beams: steel, painted, 4 siliconecoated aluminium load cells, protection against dust and water splashes IP67, weighing beams can also be delivered as components without the display device, for details see KERN KFA-V20
- 2 Sturdy handles for transporting the weighing beams
- 2 KERN UFA-L: Each weighing beam has a roller and handle for easy transport of the scale, see larger picture
- Display device: for details see KERN KFB-TM
- · Benchtop stand incl. wall mount for display device as standard
- · Totalising of weights and piece counts

- · Protective working cover included with delivery
- · KERN UFA-S: Model with short weighing beams, ideal for weighing compact items or animals in transport boxes
- · Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN - always one step ahead

Technical data

- · Large backlit LCD display, digit height 52 mm
- · Dimensions of display device W×D×H 250×160×65 mm
- · Cable length of display device approx. 5 m
- · Cable length weighing beams approx. 5 m
- Permissible ambient temperature -10 $^{\circ}\text{C}/40~^{\circ}\text{C}$









Accessories

- Protective working cover over the display device, scope of delivery: 5 items, KERN KFB-A02S05, € 44,-
- 3 Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, € 160,-
- · Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 10 h, KERN KFB-A01, € 40,-
- · Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase. When installing the Bluetooth data interface, the RS-232 data interface can no longer be used, KERN KFB-A03, € 160,-
- · Analogue module, must be ordered at purchase, not possible in combination with signal lamp or rechargeable battery pack 0-10 V: KERN KFB-A04, € 170,-4-20 mA: KERN KFB-A05, € 170,-
- 4 Signal lamp for visual support of weighing with tolerance range, not possible in combination with analogue module, KERN CFS-A03, € 310,-
- 5 Large display with superior display size KERN YKD-A02, € 310,-
- · Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, € 38,-
- · Cable with special length 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03, € 195,-
- · Further details, plenty of further accessories and suitable printers see Accessories

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD







































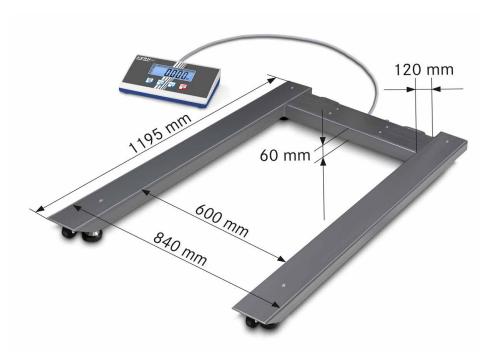








Model	Weighing capacity [Max]	Readability	Dimensions Weighing beam W×D×H	Net weight approx.	Price excl. of VAT ex works	Option DAkkS Calibr. C DAkkS	
KERN	kg	kg	mm	kg	€	KERN	€
UFA 600K-1S	600	0,2	800×120×84	36	1140,-	963-130	205,-
UFA 1.5T0.5	1500	0,5	1270×170×85	40	1240,-	963-130	205,-
UFA 3T1	3000	1	1270×170×85	38	1240,-	963-132	550,-
UFA 3T-3L	3000	1	2000×120×90	60	1570,-	963-132	550,-
UFA 6T-3	6000	2	1200×160×115	95	1610,-	963-132	550,-
UFA 6T-3L	6000	2	2000×160×115	130	2120,-	963-132	550,-









Pallet scale with steel load support (IP67) and the best price-to-performance ratio

Features

- High mobility: thanks to battery operation, compact, lightweight construction, it is suitable for the use in several locations
- Load support: steel, powder coated,
 4 silicone-coated aluminium load cells,
 protection against dust and water splashes IP67
- The scale can be easily transported using rollers and a handle and does not require much storage space
- · Protective working cover included with delivery
- In Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead.

Technical data

- Large LCD display, digit height 25 mm
- Dimensions of display device W×D×H 235×114×51 mm
- Cable length of display device approx. 5 \mbox{m}
- Optional battery operation, 4×1.5 V AA not included in scope of delivery, operating time up to 60 h
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover over the display device, scope of delivery: 5 items,
 KERN EOB-A04BS05, € 44,-
- Stand to elevate display device, height of stand approx. 1000 mm, KERN EOB-A02B, € 110,-

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs



















Model	Weighing capacity	Readability	Net weight approx.	Price excl. of VAT	Option DAkkS Calibr. C	
KERN	[Max] kg	[d] kg	kg	ex works €	DAkkS KERN	€
UIB 1.5T-4	1500	0,5	55	990,-	963-130	205,-
UIB 600K-1	600	0,2	55	990,-	963-130	205,-
UIB 3T-3	3000	1	55	990,-	963-132	550,-



High-resolution multi-range pallet scale with a wide range of interfaces, verification optional

Features

- Multi-range pallet scale! Ideal, when high maximum loads need to be weighed, but in the lower load range you still need high resolution.
 This means that two balances can be replaced with one - which saves space and money!
- High mobility thanks to rechargeable battery operation (optional)
- Display device: Protection against dust and water splashes IP65
- Load support: steel, powder coated,4 load cells, alloy steel, silicone-coated,protection against dust and water splashes IP67
- The scale can be easily transported using rollers and a handle and does not require much storage space
- Totalising of weights and piece counts
- Searching and remote control of the balance using external control devices or computers with the KERN Communication Protocol (KCP). KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol.
- Thanks to interfaces such as RS-232 or USB, WiFi, Bluetooth, Ethernet (optional), the scale can easily be connected to existing networks. Data exchange between the scale, PC or printer
- Protective working cover included with delivery

Technical data

- · Large LCD display, digit height 25 mm
- Dimensions of display device W×D×H 268×115×80 mm
- · Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Protective working cover, scope of delivery
 5 items, KERN EOC-A01S05, € 55,-
- Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, € 160,-
- Internal rechargeable battery pack, operating time up to 43 h without backlight, charging time approx. 3 h, KERN KFB-A01, € 40,-
- USB data interface, for transferring weighing to the PC, printer etc., must be ordered at purchase, KERN KIB-A03, € 120,-
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase,
 KERN KIB-A04, € 110,-
- WiFi interface for wireless connection of the balance to networks and WiFi capable devices, such as tablets, laptops or smartphones, continuous data transfer, must be ordered at purchase, KERN KIB-A10, € 130,-
- Ethernet data interface, to connect an IP-based Ethernet network, continuous data transfer, must be ordered at purchase, KERN KIB-A02, € 165,-
- Signal lamp, including interface, for visual support of weighing with tolerance range, must be ordered at purchase, KERN KIB-A06, € 470,-
- Alibi memory, including USB interface for exporting weighing results to external data storage media, such as, for example, USB sticks, hard drives, etc., must be ordered at purchase, KERN KIB-A01, € 175,-
- Verification plug, for verified balances this enables you to separate the display device and platform without affecting the verification, e.g. for installing the scale in a packing and dispatch table, pit frame etc. at a later date. Please order this at the same time as you purchase your scale, KERN KIB-A12, € 164,-

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

Model	Weighing	Readability	Minimal load	Cable length	Net	Price			Options	
	capacity	Verification value		of display de-	weight	excl. of VAT	Verifica	ation	DAkkS Calibr. C	ertificate
	[Max]	[d] = [e]	[Min]	vice approx.	approx.	ex works	MIII		DAkkS	
KERN	kg	kg	kg	m	kg	€	KERN	€	KERN	€
UID 600K-1M	600	0,2	4	5	44	1220,-	965-230	158,-	963-130	205,-
UID 1500K-1M	1500	0,5	10	5	44	1220,-	965-230	158,-	963-130	205,-
UID 3000K-0M	3000	1	20	5	44	1250,-	965-232	235,-	963-132	550,-

Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d]

and when the load is fully removed, the balance switches back to the lower range

and when the load is fully removed, the balance switches back to the lower range											
UID 600K-1DM	300 600	0,1 0,2	2 4	5	44	1280,-	965-230	158,-	963-130	205,-	
UID 1500K-1DM	600 1500	0,2 0,5	4 10	5	44	1260,-	965-230	158,-	963-130	205,-	
UID 3000K-0DM	1500 3000	0,5 1	10 20	5	44	1260,-	965-232	235,-	963-132	550,-	

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

Note: For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame

^{*}Only one optional interface can be installed and used











Pallet scale with steel load support (IP67), verification optional

Features

- · High mobility: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations
- · Display device: for details see KERN KERN KFB-TM
- 1 Load support: steel, powder-coated, Weighing bridge can also be delivered as component without the display device, for details see KERN KERN KFU-V20
- 4 load cells, alloy steel, silicone-coated, IP67
- Two wheels for easy transportation of the scale
- Weighing with tolerance range (checkweighing): A visual and audible signal assists the rapid checking of items on palettes
- · Totalising of weights and piece counts
- · Protective working cover included with delivery
- 2 Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN - always one step ahead.

Technical data

- · Large backlit LCD display, digit height 52 mm
- · Dimensions of display device W×D×H 250×160×58 mm
- · Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover over the display device, scope of delivery: 5 items, KERN KFB-A02S05, € 44,-
- 3 Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, € 160,-
- · Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01, € 40,-
- · Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification. When installing the Bluetooth data interface, the RS-232 data interface can no longer be used, KERN KFB-A03, € 160,-

- · Analogue module, must be ordered at purchase, not possible in combination with signal lamp or rechargeable battery pack 0-10 V: KERN KFB-A04, € 170,-4-20 mA: KERN KFB-A05, € 170,-
- Signal lamp for visual support of weighing with tolerance range, not possible in combination with analogue module, KERN CFS-A03, € 310,-
- 5 Large display with superior display size KERN YKD-A02, € 310,-
- · Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, € 38,-
- · Cable with special length 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03, € 195,-
- · Further details, plenty of further accessories and suitable printers see Accessories

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs













































Model	Weighing	Readability	Verification	Minimal load	Net weight	Price			Options	
	capacity	= Verification value	value		approx.	excl. of VAT	Verifica	ition	DAkkS Calibr. C	Certificate
	[Max]	[d] = [e]	[e]	[Min]		ex works	(M (III)		DAkkS	
KERN	kg	kg	kg	kg	kg	€	KERN	€	KERN	€
UFB 600K200M	600	0,2	0,2	4	55	1250,-	965-230	158,-	963-130	205,-
UFB 1.5T0.5M	1500	0,5	0,5	10	55	1250,-	965-230	158,-	963-130	205,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.









Pallet scale with stainless steel load support (IP67) and stainless steel display device (IP65), verification optional

Features

- · High mobility: thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department, etc.)
- · Load support: stainless steel, Weighing bridge can also be delivered as component without the display device, for details see KERN KFU-V30
- 1 4 silicone-coated steel load cells, IP67 dust and spray protection
- · Your support in a HACCP-compliant quality system
- · Ideal for the increased hygienic requirements in the food industries
- 2 Display device: for details see KERN KFN-TM
- · The scale can be easily transported using rollers and a handle and does not require much storage space
- Hold function: When the weighing conditions are unstable, a stable weight is calculated determining an average value
- · Weighing with tolerance range (checkweighing): A visual and audible signal assists the rapid checking of items on palettes

- · Summation of weight values
- 3 Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN - always one step ahead.

Technical data

- · Large backlit LCD display, digit height 52 mm
- Dimensions of display device W×D×H 266×165×96 mm
- · Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- 4 Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, € 160,-
- · Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 10 h, KERN GAB-A04, € 42,-
- · Data interface RS-232, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01, € 225,-

- · Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not possible in combination with verification or RS 232 data interface, KERN KFB-A03, € 160,-
- · Analogue module, must be ordered at purchase 0-10 V: KERN KFB-A04, € 170,-4-20 mA: KERN KFB-A05, € 170,-
- 5 Large display with superior display size (only in combination with RS 232 data interface including interface cable KERN KFN-A01), KERN YKD-A02, € 310,-
- Cable with special length 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03, € 195,-
- · Further details, plenty of further accessories and suitable printers see Accessories

Optionally configurable with IP68 display device on request, details see chapter 13

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs



































Model	Weighing capacity	Readability	Minimal load	Net weight	Price			Options	
		 Verification value 		approx.	excl. of VAT	Verifica	ition	DAkkS Calibr. C	ertificate
	[Max]	[d] = [e]	[Min]		ex works	MI		DAkkS	
KERN	kg	kg	kg	kg	€	KERN	€	KERN	€
UFN 600K200IPM	600	0,2	4	55	1870,-	965-230	158,-	963-130	205,-
UFN 1.5T0.5IPM	1500	0,5	10	50	1870,-	965-230	158,-	963-130	205,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.











Compact, robust drive-through scale – particularly mobile thanks to its carrying handle, rollers and lightweight construction

Features

- Drive-through scales enable accurate weighing
 of goods during a production process, without
 having to unload them. In this way the weighing
 process can be perfectly integrated into the
 workflow and there is no significant loss of time.
 Ideal for rapid weighing of e.g. wire cage trolleys,
 shelf trolleys, container trolleys, storage trolleys,
 sack trucks, transpallets, mobile containers,
 containers refuse etc.
- Low platform height and integrated access ramps on both sides facilitate access. No need for pit frame installation – which saves money
- Weighing bridge: Steel, powder coated, 4 silicon-coated aluminium load cells with protection against dust and water splashes to IP67
- Level indicator to level the balance precisely
- In the scale can be easily transported using rollers and a handle and does not require much storage space

- Wall mount for the display device, as standard, only for models without a stand
- · Protective working cover included with delivery
- In Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN – always one step ahead.

Technical data

- Large LCD display, digit height 25 mm
- Platform height in the drive-through area: 40 mm
- Dimensions weighing surface, steel, lacquered W×D 800×800 mm (Without ramps)
- Overall dimensions W×D×H 1000×1000×80 mm
- Dimensions of display device W×D×H 235×114×51 mm
- Cable length of display device approx. 5 m
- Optional battery operation, $4\times1.5~\text{V}$ AA not included in scope of delivery, operating time up to 60 h
- Permissible ambient temperature -10 $^{\circ}\text{C}/40$ $^{\circ}\text{C}$

Accessories

- Protective working cover over the display device, scope of delivery:
 5 items, KERN EOB-A04BS05, € 44,-
- Pair of base plates to fix the weighing bridge to the floor, KERN BIC-A07, € 44,-

STANDARD

CAL EXT UNIT MOVE IP67 BATT MULTI DMS 2 DAYS

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+	3 [)AC	ΥS

Model	Weighing capacity [Max]	Readability [d]	Net weight approx.	Price excl. of VAT ex works	Option DAkkS Calibr. C DAkkS	
KERN	kg	kg	kg	€	KERN	€
NIB 300K-1	300	0,1	40	870,-	963-129	146,-
NIB 600K-2	600	0,2	40	870,-	963-130	205,-



Drive-through scale (IP67) with XXL display device, verification optional

Features

- · Drive-through scale for rapid weighing of e.g. wire cage trolleys, shelf trolleys, container trolleys, storage trolleys, sack trucks, transpallets, mobile containers, containers refuse etc.
- · Low platform height and integrated access ramps on both sides facilitate access. No need for pit frame installation - which saves money
- Meighing bridge: out of anti-slip corrugated steel, 4 silicone-coated steel load cells, IP67 dust and spray protection
- Display device: for details see KERN KFB-TM
- · Protective working cover included with delivery
- 2 Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN - always one step ahead.

Technical data

- · Large backlit LCD display, digit height 52 mm
- · Weighing plate dimensions
- A W×D 1000×1000 mm (Without ramps)
- B W×D 1200×1200 mm (Without ramps)
- · Overall dimensions
 - A W×D×H 1600×1200×80 mm
 - **B** W×D×H 1800×1400×80 mm
- Platform height in the drive-through area: 80 mm
- · Dimensions of display device W×D×H 250×160×58 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C/40 °C

Accessories

- · Protective working cover over the display device, scope of delivery: 5 items, KERN KFB-A02S05, € 44,-
- 3 Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, € 160,-









- · Pair of base plates to fix the weighing bridge to the floor, KERN BFS-A06, € 75,-
- · Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 10 h, must be ordered at purchase, KERN KFB-A01, € 40,-
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification. When installing the Bluetooth data interface, the RS-232 data interface can no longer be used, KERN KFB-A03, € 160,-
- · Analogue module, must be ordered at purchase, not possible in combination with signal lamp or rechargeable battery pack 0-10 V: KERN KFB-A04, € 170.-4-20 mA: KERN KFB-A05, € 170,-
- 4 Signal lamp for visual support of weighing with tolerance range, not possible in combination with analogue module, KERN CFS-A03, € 310,-
- **5** Large display with superior display size, KERN YKD-A02, € 310,-
- Y-cable for parallel connection of two terminal devices to the RS-232 interface on the scale, e.g. signal lamp and printer, KERN CFS-A04, € 38,-
- · Cable with special length 15 m, between display device and platform, for verified models which must be ordered at the time of purchase. KERN BFB-A03, € 195,-
- · Further details, plenty of further accessories and suitable printers see Accessories

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD







































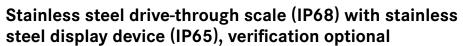


Model	Weighing capacity [Max]	Readability = Verification value [d] = [e]	Minimal load [Min]	Cable length display device approx.	_	0 0	Price excl. of VAT ex works	Verifica	ation	Options DAkkS Calibr. C DAkkS	ertificate
KERN	kg	kg	kg	m	kg		€	KERN	€	KERN	€
NFB 600K200M	600	0,2	4	5	140	Α	1850,-	965-230	158,-	963-130	205,-
NFB 600K200LM	600	0,2	4	5	165	В	2150,-	965-230	158,-	963-130	205,-
NFB 1.5T0.5M	1500	0,5	10	5	140	Α	1850,-	965-230	158,-	963-130	205,-
NFB 1.5T0.5LM	1500	0,5	10	5	155	В	2150,-	965-230	158,-	963-130	205,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

Note: For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame





Features

- · Robust stainless steel drive-through scale for rapid weighing of e.g. laundry carts, container trolleys, roller containers, etc. Ideal for hospital laundry services, goods inwards, hospital kitchens, etc.
- Low platform height and integrated access ramps on both sides facilitate access. No need for pit frame installation - which saves money
- Ideal for the ever-increasing hygienic requirements in the food, pharmaceutical and chemical industries.
- Your support in a HACCP-compliant quality
- 1 Weighing bridge: stainless steel, extremely resistant to bending due to material thickness, 4 welded stainless steel load cells, IP68 dust and spray protection. Weighing bridge can also be delivered as component without the display device, for details see KERN KFD-V40

- 2 Display device: for details see KERN KFN-TM
- · Totalising of weights and piece counts
- Internal rechargeable battery pack included with the delievery
- 3 Did you know? Our floor scales are delivered in a robust wooden box. This protects the high-quality weighing technology from environmental influences and stresses during transportation. KERN - always one step ahead

Technical data

- · Large backlit LCD display, digit height 52 mm
- Weighing plate dimensions W×D 1000×1000 mm (Without ramps)
- Platform height in the drive-through area: 80 mm
- Overall dimensions W×D×H 1600×1200×80 mm
- · Dimensions of display device W×D×H 266×165×96 mm
- Permissible ambient temperature -10 °C/40 °C









Accessories

- 4 Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, € 160,-
- · Pair of base plates to fix the weighing bridge to the floor, KERN BFN-A03, € 95,-
- · Internal rechargeable battery pack, operating time up to 35 h without backlight, charging time approx. 12 h, KERN GAB-A04, € 42,-
- · Data interface RS-232, interface cable included, approx. 1,5 m, must be ordered at purchase, KERN KFN-A01, € 225,-
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, not in combination with verification, not possible in combination with verification or RS 232 data interface, KERN KFB-A03, € 160,-
- · Analogue module, must be ordered at purchase, not possible in combination with RS 232 data interface
- 0-10 V: KERN KFB-A04, € 170,-4-20 mA: KERN KFB-A05, € 170,-
- 5 Large display with superior display size (only in combination with Data interface KERN KFN-A01), KERN YKD-A02, € 310,-
- · Cable with special length 15 m, between display device and platform, for verified models which must be ordered at the time of purchase, KERN BFB-A03, € 195,-
- · For further details, plenty of further accessories and suitable printers, see Accessories

Optionally configurable with IP68 display device on request, details see chapter 13

! Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs

STANDARD





























OPTION



FACTORY





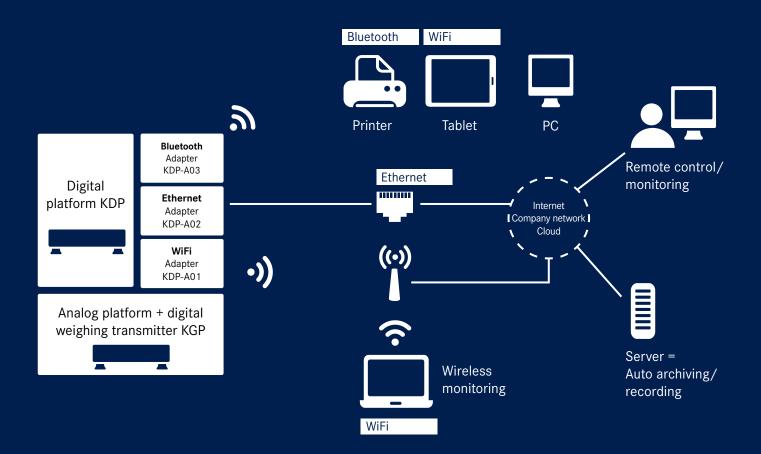
Model	Weighing ca-	Readability	Minimal	Cable length	Net weight	Price			Options	
	pacity	= Verification value	load	of display device	approx.	excl. of VAT	Verifica	ition	DAkkS Calibr. C	ertificate
	[Max]	[d] = [e]	[Min]	approx.	kg	ex works	MIII		DAkkS	
KERN	kg	kg	kg	m		€	KERN	€	KERN	€
NFN 600K-1M*	600	0,2	4	5	105	3940,-	965-230	158,-	963-130	205,-
NFN 1.5T-4M*	1500	0,5	10	5	105	3910,-	965-230	158,-	963-130	205,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

Note: For verified scales the weighing bridge must be fixed to the floor. Optionally, with an access ramp, a footplate pair or a pit frame

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SYSTEM SOLUTIONS INDUSTRY 4.0



We will help to combine industrial production with the latest information and communication technology, with the aim of improving quality, reducing costs and using time and resources more efficiently so that you are able to react to future requirements in a more flexible manner. You will benefit from our uniform data protocol combined with our BalanceConnection 4.0 data software, see *Software*.

The KERN team in our centre of expertise - Industry 4.0







Daniel Egeler

Maximilian Pfister

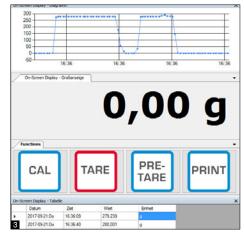
Ralf Schmieg

We are happy to inform and advise you
Tel. +49 7433 9933-200, ITsupport@kern-sohn.com









Robust industrial platform scale with digital weighing transmitter, ideal for varied range of applications for Industry 4.0

Features

- With this combination of platform 1 (KERN KFP V20 IP65) and digital weighing transmitter (KERN YKV-01) your weighing processes are ready for the requirements of Industry 4.0. Simply install the platform, connect the digital weighing transmitter to the network and start weighing
- · For rapid transfer of weighing data to connected networks, computers, etc.
- · USB and RS-232 data interface standard, Power supply via USB interface
- Transfer formats are freely configurable
- · Digital weighing transmitter with standard ethernet data interface on request
- · Functions: Weighing, taring
- · Internal resolution 16 million divisions

- Measuring frequency 10 Hz
- · Easy configuration using the software supplied
- KERN YKV-01: Robust plastic die-cast housing
- 2 KERN YKV-01: Suitable for wall mounting and DIN track mount (optional)
- · included with the delivery:
- Industrial platform KERN KFP
- Digital weighing transmitter KERN YKV-01
- 2 DIN rail mounting bracket for KERN YKV
- Configuration software for adjusting and managing the KERN KGP, for large-format display of the values collected on the PC as well as transfer of this data to other Apps and programs. The displayed result can therefore be converted to any format for communication with the different user programs, such as, for example, e.g. SAP, Oracle etc.

Technical data

- · Weighing plate material: stainless steel
- KERN YKV-01: Overall dimensions W×D×H 100×140×36 mm
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Bluetooth data interface, KERN YKV-A02, € 98,-
- WiFi interface, KERN YKV-A01, € 98,-
- · Ethernet data interface on request
- 3 Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs, for more details see internet, scope of supplies: 1 CD, 1 license, KERN SCD-4.0, € 210,-



























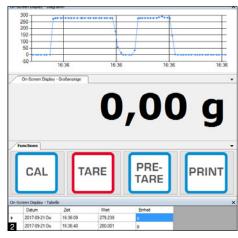


Model	Weighing capacity	Readability	Weighing plate W×D×H	Cable length	Net weight	Price excl. of VAT	Opti DAkkS Calib i	
KEDN	[Max]	[d]		approx.	approx.	ex works	DAkkS	
KERN	kg	g	mm	m	kg	€	KERN	€
KGP 6K-4	6	0,2	230×230×103	2,5	6	440,-	963-128	118,-
KGP 6K-4L	6	0,2	300×240×105	2,5	10	460,-	963-128	118,-
KGP 10K-4	15	0,5	300×240×105	2,5	6	460,-	963-128	118,-
KGP 10K-4L	15	0,5	400×300×114	2,5	10	500,-	963-128	118,-
KGP 30K-3	30	1	300×240×105	2,5	6	460,-	963-128	118,-
KGP 30K-3L	30	1	400×300×114	2,5	10	520,-	963-128	118,-
KGP 60K-3	60	2	400×300×114	2,5	10	540,-	963-129	146,-
KGP 60K-3L	60	2	500×400×124	2,5	14	600,-	963-129	146,-
KGP 100K-3	150	5	500×400×124	2,5	14	600,-	963-129	146,-
KGP 100K-3L	150	5	650×500×136	2,5	22	820,-	963-129	146,-
KGP 300K-2L	300	10	650×500×136	2.5	22	870	963-129	146









Modern digital weighing transmitter for the rapid recording of weighing data and forwarding it to the most varied output channels such as tablets, networks, SPS controllers, etc. – ideal for operating balances in systems or conveyors

Features

- With this digital weighing transmitter your weighing processes are ready for the requirements of Industry 4.0. Simply connect a weighing platform or measuring cell, integrate the digital weighing transmitter into the network and start weighing
- For rapid transfer of weighing data to connected networks, computers, etc.
- USB and RS-232 data interface standard,
 Power supply via USB interface
- · Transfer formats are freely configurable
- Functions: Weighing, taring
- Measuring frequency 10 Hz
- · Easy configuration using the software supplied
- Robust plastic die-cast housing
- Suitable for wall mounting and DIN track mount
- · Compatible with all KERN weighing platforms

- · Included with the delivery:
- Digital weighing transmitter KERN YKV
- USB cable incl. mains plug
- DIN rail mounting bracket
- Configuration software for adjusting and managing, for large-format display of the values collected on the PC as well as transfer of this data to other Apps and programs. The displayed result can therefore be converted to any format for communication with the different user programs, such as, for example, SAP, Oracle etc.

Technical data

- Overall dimensions W×D×H 100×140×36 mm
- Net weight approx. 0,35 kg
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Bluetooth data interface, KERN YKV-A02, € 98,-
- WiFi interface, KERN YKV-A01, € 98,-
- 2 Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs, for more details see internet, scope of supplies: 1 CD, 1 license, KERN SCD-4.0, € 210,-



 Model
 Standard interfaces
 Price excl. of VAT ex works

 KERN
 €

 YKV-01
 RS-232, USB
 265,

 YKV-02
 RS-232, USB, Ethernet
 320,











Your contact for technical questions



Stefan Herrmann Tel. +49 7433 9933-214 stefan.herrmann@kern-sohn.com

Compact display device (rail-mounted module) for installation in switch cabinets

Features

- · Compact display unit for recording weighing data using strain gauge load cells, e.g. in industrial applications
- · Due to its small size, it is particularly space-saving to install in switch cabinets
- · Thanks to the many interface variants, the modules can be ideally integrated into existing infrastructures and systems
- · The modules can be used either individually or as a Buslink system with a total of up to 332 DIN rail modules
- The configuration of the module can be carried out conveniently via a connected PC with the suitable software (Download see Internet)
- · Bright LED display for optical control and settings
- Time-saving G-Cal™ (Geographic Calibration) technology for fast and accurate calibration without weights conveniently over a network or the Internet worldwide
- · Convenient communication via remote devices

- · Backup and restore function via USB port
- · Can handle various industrial protocols such as Ethernet IP, Modbus TCP, Modbus RTU, FINS, PROFIBUS DP and PROFINET (according to model)
- Extremely high measurement frequency possible, up to 1600 data records/second
- · Internal resolution 24 Bit

Technical data

- 7 segment LED display, digit height 7,62 mm
- Dimensions W×D×H 120×101×23 mm
- Power supply 18-32 Vdc; 4 W max.
- · Power supply load cell 5 Vdc
- Sensitivity 0,1 μV/d
- · Adjustable nominal sensitivity 1; 1.5; 2; 2.5; 3 mV/V
- Input voltage unipolar @3mV/V: -1 mV to + 16 mV
- Input voltage bipolar @3mV/V: -16 mV to +16 mV
- Max. load cell impedance 1200 $\boldsymbol{\Omega}$
- Min. load cell impedance 43,75 Ω
- Max. no. of load cells 350 Ω : 8

- Max. no. of load cells 1000 Ω: 22
- Max. resolution d 10.000
- Display steps 1, 2, 5, 10, 20, 50, 100, 200
- Permissible ambient temperature -10 °C/40 °C

Accessories

- Mains adapter for voltage supply to the KERN CE, can be fitted on the DIN rail, KERN CE HSS, € 90,-
- · Large display with superior display size, KERN YKD-A02, € 310,-
- · For further accessories, such as load and load cells, torque sensors and weighing platforms (strain gauge based only) from the SAUTER and KERN range, see internet
- · Further accessories such as DIN rail, housing as well as individual assembly, configuration, adjustment, etc. on request

Note: Models optionally also available verified, please enquire

STANDARD























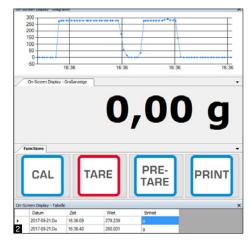
Model KERN	Communication Interfaces	Digital I/O	Analog output	Price excl. of VAT ex works €
CE HSA*	USB	-	0/4-20/24 mA	495,-
CE HSAIO*	USB	3 input / 4 output	0/4-20/24 mA	640,-
CE HSE*	USB, Ethernet	3 input / 4 output	-	560,-
CE HSP*	USB, PROFIBUS	3 input / 4 output	-	560,-
CE HSR*	USB, RS-232, RS-422	3 input / 4 output	-	530,-
CE HSN	USB. PROFINET	3 input / 4 output	-	790











Universal weighing platforms for flexible connection in process chains

Features

- Industry 4.0 process chains: these weighing platforms can be easily integrated into your process chain. All recorded values can be easily transferred and processed further in your system as digital data and data that has already been compared using the many interfaces available. This saves cost, time and resources and ensures even more effective working
- Connecting the platform with a tablet or PC offers the advantage of being able to use the apps and programs which are on that device. These apps and programs are usually already tailored to your needs, are easy and convenient to use and can often be expanded as needed. This offers you the maximum level of flexibility when displaying, processing and saving the recorded weighing data
- · Searching and remote control of the balance using external control devices or computers with the KERN Communication Protocol (KCP).

KCP is a standardised interface command structure for KERN balances and other instruments which allows you to recall and manage all relevant parameters and device functions. You can therefore simply connect KERN devices with KCP to computers, industrial control systems and other digital systems. In a large number of cases the KCP is compatible with the MT-SICS protocol

- · PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- 1 A practical status LED informs about the active power supply
- · Draught shield standard for models with weighing plate size Ø 105 mm, weighing space W×D×H 146×146×80 mm
- · included with the delivery:
 - 2 Software BalanceConnection for adjusting and managing the KERN KDP, for large-format display of the values collected on the PC as well as transfer of this data to other Apps and programs

Technical data

- · Dimensions weighing surface
 - A Ø 105 mm, plastic, with conductive lacquer
 - B W×D 160×160 mm, stainless steel
- · Overall dimensions W×D×H 165×166×75 mm (without draught shield)
- · Cable length approx. 1,2 m
- Net weight approx. 1,2 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- · Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, KERN KDP-A03, € 54,-
- · WiFi data interface to transfer data from balances to PC or tablet, must be ordered at purchase, KERN YMI-A01, € 95,-
- · Ethernet data interface, to connect an IP-based Ethernet network, continuous data transfer, must be ordered at purchase, KERN KDP-A02, € 110,-

*WiFi and Ethernet data interface cannot be combined

STANDARD									
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Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Price excl. of VAT	Opti DAkkS Calib	ions r. Certificate
	[Max]	[d]				ex works	DAkkS	
KERN	g	g	g	g		€	KERN	€
KDP 300-3	350	0,001	0,002	± 0,005	Α	525,-	963-127	98,-
KDP 3000-2	3500	0,01	0,02	± 0,05	В	525,-	963-127	98,-
KDP 10K-4	10000	0,1	0,1	± 0,3	В	490,-	963-128	118,-
KDP 10K-3	10000	1	1	± 3	В	470,-	963-128	118,-

WE CAN MAKE YOUR WEIGHING DATA DIGITAL – KERN EASYTOUCH

The KERN EasyTouch software combines the performance of KERN scales with the flexibility of a Windows or Android environment.

The modular system solution for efficient weighing – perfect for your individual requirements







See for yourself how convenient and easy it is to use KERN EasyTouch





See for yourself the many benefits of the new KERN EasyTouch App:

- → Greater efficiency through short workflows for the user
- → Greater security of the measuring results
- → Avoiding measuring and process errors
- → Unlimited master data memory
- → Central data storage and data security (tamper-proof)
- → Interfaces to ERP, PPS, etc. systems

All details about the new KERN EasyTouch App can be found at https://lp.kern-sohn.com/en/easytouch

Working with the KERN EasyTouch is so easy

Collect the weight and measurement data with the appropriate device

Transfer, process and agument the weight or measurement data through KERN EasyTouch

Output or store the weight or measurement data to connected systems or peripheral devices



- → A standard balance is connected to an external laptop/tablet
- → The performance of the balance is transferred to the terminal device 1:1
- → Even simpler control and use of data by expanding the user interface
- → The data is integrated directly in the process and this means it can continue to be used and stored
- → Errors in the process or application are avoided
- → In this way a simple balance becomes a highly-complex measuring device
- → The recorded data can be processed further in a flexible way

The EasyTouch App – these functions are included:

- · Operating system with Basic Weighing and Laboratory Package
- At present 20 optional add-on functions
- Data storage functions
- On request we can also offer tailor-made solutions get in touch with us



Test it without any risk and free of charge – it's that easy!



Load the basic App from the Appstore

The KERN EasyTouch App already contains many helpful functions.

2

Connect the devices you need

Connect to devices using the four interfaces provided (Bluetooth, wired or USB adapter or WiFi).



Test the basic package for 6 weeks, without obligation and free of charge

After 6 weeks you can decide whether to continue using the Apps. With absolutely no loss of data.

Talk to the professionals

Our KERN EasyTouch specialists will gladly inform and advise you on all questions regarding the new KERN EasyTouch App

Tel. +49 7433 9933-324 ETsales@kern-sohn.com





Daniel Egeler

Maximilian Pfister

Wolfgang Schäfer



Your benefits of the KERN EasyToch software

- \rightarrow You only pay for the functions that you use
- → Expansion of the range of services of your balance to meet your individual ideas and preferences
- → Easy control of your balances from wherever you currently are: laboratory, production, office control of a PC, laptop or a tablet
- → Tamper-proof storage of all weighing data on a central server, in an orderly database

Possible interfaces:

- → Wired through RS 232 interface cable + USB adapter AFH 13
- → Bluetooth through KUP-06 or KUM-06
- → Ethernet through KUP-04 or KUM-04
- → WLAN through KUP-05 or KUM-05

KERN EasyTouch – available right now for the following KERN ranges/models

KERN Balances / Weighing platforms										
572	FCB	IOC ⁽¹⁾	KGP	PKS						
CDS	FKB	IXC	PCB	SXC						
CKE	IFB	KDP	PCJ							
DS	IFC	KFC-TM	PKJ							

(1) Verified operation: Weighing data from legally regulated uses can be stored and archived in KERN EasyTouch in conformity with standards, by using models from this product family with valid calibration and measurement value memory. This standard-compliant data storage also applies to SaveServer.

Depending on the model and connection type (USB, Bluetooth, Ethernet, WiFi), please contact KERN specifically, as there may currently still be restrictions on the possible combinations.

Tip: Other KERN ranges can be adapted to be EasyTouch compatible – keep up-to-date with the latest new on **https://lp.kern-sohn.com/en/easytouch**



Note: All KERN models which are EasyTouch compatible are marked with the relevant symbol in the catalogue!

EasyTouch function at a glance

Basic Package - Operating system

SET-01 EasyTouch Base

Basic Weighing & Laboratory Package

The basic package contains many useful functions such as weighing, totalizing, target dispensing and percentage weighing. As well as the local master data administration and management of the weighing results.

The basic package can be expanded at any time with additional, optional add-on functions.

Optional add-on functions



SET-07 ET Variable

Free variable function

Individually definable units, e.g. cable length g/m, weight per unit area g/m^2 , etc.

SET-08 ET Take-Out

Take-out function

Ideal for portioning by removing from a source container

SET-11 ET Safety

Precision & Safety function

Scale monitoring: the MUST for the pharmaceutical sector

SET-16 ET Batch & Statistics

Batch measuring function with statistical analysis

Perfect function in the context of production control, for calculating averages, etc.

SET-21 ET Formulation

Recipe function

Recipe management, dosing aid, recipe adjustment, multiplier function, etc.

SET-22 ET Difference

Difference function

Monitoring of weight increase (e.g. cell growth) or weight decrease (e.g. drying) and calculation of the weight difference

SET-31 ET Tolerance

Tolerance weighing function

Weighing within defined limits ensures fast sorting, portioning, picking, checking

SET-32 ET Count

Piece-counting function

Fast counting of large quantities, avoids counting errors, saves time and money!

SET-33 ET Target Count

Target-counting function

For lightning-fast picking of small parts, safely supported by optical and acoustic signals

SET-17 ET PrePack

Production control and packaging

Perfect for use in sectors such as the food industry for weighing in accordance with pre-packaging legislation

SET-14 ET Individual Print

User-customised print format function

Individual positioning of print elements, form printing, paper sizes and barcode printing is possible

You can find more functions on our EasyTouch home page:



https://lp.kern-sohn.com/ en/easytouch

Central data memory

+

SET-10 ET Save-Data Server

Weight storage and Save-Server function

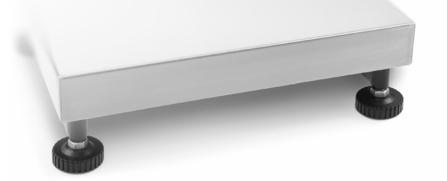
Central storage of weighing and measuring data in a network

SET-28 Customization Service

Service for programming

Setting up and configuring interfaces (e.g. to merchandise management, ERP or PPS) and individual customer requirements

13



DISPLAY DEVICES, PLATFORMS, WEIGHING BRIDGES

Customized individual weighing systems, without verification

KERN offers a range of KERN display devices and KERN weighing units, such as platform scales, floor scales, pallet scales and drive-through scales, which you can customize to make your ideal scale. You choose the components, KERN handles the rest.

Assembly

KERN delivers the complete scale which is ready to use. Prices for assembly can be found in the "Assembly" price table. On request we can also create a calibration certificate in accordance with DAkkS at an additional price, see *DAkkS Calibration Service*.

Customizing individual weighing systems which can be verified or are verified

In order to provide the complete package, as well as assembling your individual weighing system, KERN will also carry out the manufacturer's initial verification/evaluation for conformity in accordance with EC directives as a commercial scales of verification class III.

In accordance with the European verification regulations, when assembling a display device with a weighing unit you must take the following notes into account:

- Only elements which can be verified with type approval or OIML test certificate can be combined into a weighing system which can be verified.
 Possible models are marked with "M".
- Platforms with load cells, provided as third-party products which have an OIML test certificate can be included.
- It will not be possible to carry out verification at a later date, e.g. after assembly and delivery of the weighing system. So please order the verification at the same time as you order the weighing system.

You will find a wide variety of display devices, platforms, weighing bridges, etc. in KERN's product range and these can be put together to create your ideal scale. You simply choose the components, KERN handles the rest.



The individual KERN steps:

 Proof of compatibility This is mandatory by law and includes testing by using type approvals, 	Weighing capacity	Model	Price excl. of VAT, ex works	
whether the connection values of the display device match the connection	0 up kg	KERN	€	
data of the weighing unit.	all Weighing capacities	965-240	49,-	
2. Assembly	up ≤ 50 kg	965-411	80,-	
After testing for suitability using the proof of compatibility, the weighing system will	up ≤ 350 kg	965-412	111,-	
be hard wired by KERN. The weighing system will then be tested in accordance with	up ≤ 1500 kg	965-413	136,-	
regulations of 2014/31/EU, the European directive for non-automatic weighing	up ≤ 2900 kg	965-414	170,-	
instruments and prepared for conformity assessment.	up ≤ 6000 kg	965-415	285,-	
3. Initial verification by the manufacturer	up ≤ 5 kg	965-227	65,-	
Conformity assessment ("Initial verification by the manufacturer")	up ≤ 50 kg	965-228	84,-	
KERN is authorised to carry out the conformity assessment ("initial verification by the manu-	up ≤ 350 kg	965-229	110,-	
facturer") in accordance with 2014/31/EU, the European directive for non-automatic weighing	up ≤ 1500 kg	965-230	158,-	
instruments and is therefore authorised to introduce the weighing system onto the market,	up ≤ 2900 kg	965-231	178,-	
after the test has been carried out successfully and the conformity mark has been affixed.	up ≤ 6000 kg	965-232	235,-	

4. Declaration of conformity

KERN issues this after the initial verification by the manufacturer Conformity assessment has been carried out successfully and sends it with the weighing system at no additional cost, and it can be used in areas regulated by law.

Modifications and special services

Description	Model	Price excl. of VAT, ex works
	KERN	€
Cable extensions for platform scales		
up to 4 m extension	965-403	51,-
up to 7 m extension	965-404	68,-
up to 20 m extension	965-405	85,-
Individual settings		•
Scale with NAWI conformity evaluation, only in combination with KERN 965-240	965-401	57,-
Other adjustments in the balance or software changes	965-407	108,-/h

Plug connection (replaces the fixed cable connection between the display device and platform with a plug connection which can be disconnected)

Balances with type approval and verification (according to time spent)

only possible with separable, verifiable plug connection with identification chip (e.g. KERN KIB-A12), for the corresponding models (e.g. IOC, BID, UID) please order when purchasing

Balances with type approval, no verification 965-406 68,-

■ Delivery time for modifications & special services approx. 5-8 working days

Order example

KFP 30V20M platform and KEN-TM display device with cable extension (4 m) and setting an individual preload.	Model KERN	Price excl. of VAT, ex works €
KERN platform	KFP 30V20M	315,-
KERN display device	KFN-TM	360,-
Proof of compatibility	965-240	49,-
Cable extension	965-403	51,-
Setting the preload	965-401	57,-
Assembly	965-411	80,-
Verification at the factory KERN	965-228	84,-
Complete scale (verified)		996,-

NOTHING IS IMPOSSIBLE – KERN CUSOS

Perfectly working weighing solutions with customized platform sizes, specific software solutions and coordinated peripherals – to suit your processes.

Our KERN Customized Solution Service offers maximum freedom of choice – give it a try.

KERN cusos – Perfectly tailored to you and your requirements

Powerful balances and efficient weighing systems which support you in your work, should be adapted to your individual requirements. Standard models are therefore not sufficient under some circumstances.

For this reason, at KERN it is our pleasure to work with you to develop a solution which is appropriate and tailor-made for you. From a range of platform sizes through to personalised weighing systems within large production plants, we can provide the right measuring technology.

Through close collaboration with your engineers and users, we first check the special requirements for your application. Using this data we will put together the appropriate platform scale, floor scale or a completely personalised weighing system for you, to fit your requirements perfectly.

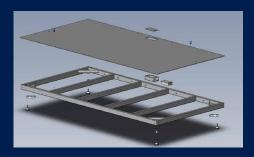




Fig.: Example of a design for personalised platform scales in the floor scale sector

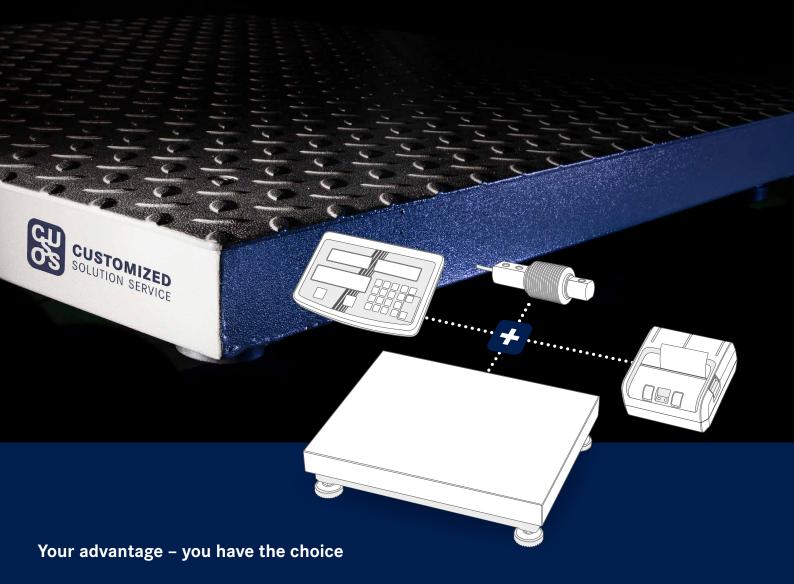


Ideal for the most varied requirements, e.g. for weight measurement on roller conveyors in automation processes and packing stations



For perfect integration into existing and newly configured processes: individual platform construction in individual formats





Choose from a wide range of display devices. Economical and lightweight (plastic version), robust and water-resistant (stainless steel version), with numeric key pad, battery or mains operation or the most varied interfaces.

Load cells to construct automatic weighing systems such as filling or dosing systems, such as might be used, for example, in manufacturing or filling processes in the chemical industry, construction industry, mineral industry, etc.

On many occasions, load cells are also used in the construction of checkweighers or for installation into packaging machines of any type in the food industry.

The weighing data can be forwarded to peripheral devices such as signal lamps, printers and laptops or be used to switch valves, or similar devices.

What's your individual requirement?

Just tell us the size you want and the material you want for your platform and other essential construction details – done! We'll take care of the implementation.

From page 144 you will find a selection of our platforms, load cells and evaluation devices – the starting point for your individual system solution!

Our competent CUSOS is at your disposal and is looking forward to your project:

Tel: +49 7433 9933-570 E-Mail: cusos@kern-sohn.com







Fabian Brenner



Tip: Save money and ask our experts. Maybe your desired combination is already included in our standard range?



Further information and products:

www.kern-sohn.com



11 KERN KFB-TM

Display device with large digits – easy to read and optional analogue output for controlling systems (PLC) etc.



2 KERN KFS-TM

Professional indicator with 3 displays, also with EC type approval [M]

Tip

to see what options are offered by this display device, please see the KERN platform scale IFB on page 114

Tip

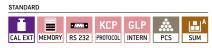
to see what options are offered by this display device, please see the KERN counting scale IFS on page 92

STANDARD KCP GLP S SUM UNIT TOL

STANDARD OPTION FACTORY

MOVE MULTI 1 DAY

ACCU BT 2.0 ANALOG M



TOL MULTI 1 DAY

OPTION FACTORY

Features	Model KERN	Model KERN
	■ KFB-TM	2 KERN KFS-TM
Display (segments)	5 + ½ digits	6 digits
EC type approval	yes	yes
Resolution verifiable	6000 e	3000 e
Resolution non verifiable	30000 d	60000 d
Weighing capacities	≤ 2	≤ 2
Weighing units	kg, lb	kg, g
Readability	1, 2, 5, 10, n	1, 2, 5, 10, n
Piece counting with reference	10, 20, 50, 100, 200	n
Display, digit height	Backlit LCD display, 52 mm	Backlit LCD displays, 13/16,5 mm
Additional functions	Totalising, HOLD function, Integrated KERN Communication Protocol (KCP), ideal for connecting an Merchandise Management or ERP system, Compatible with the KERN EasyTouch App	99 item memories, totalising, printing of date and time, Integrated KERN Communication Protocol (KCP), ideal for connecting an Merchandise Management or ERP system, Compatible with the KERN EasyTouch App
Strain gauge load cells	87 - 1600 Ω	87 - 1600 Ω
Linearisation	3 points	4 points
Input voltage	12 V 500 mA	12 V 500 mA

	Management or ERP system, Compatible with the KERN EasyTouch App	ideal for connecting an Merchandise Management or ERP system, Compatible with the KERN EasyTouch App
Strain gauge load cells	87 - 1600 Ω	87 - 1600 Ω
Linearisation	3 points	4 points
Input voltage	12 V, 500 mA	12 V, 500 mA
Permissible ambient temperature	-10 °C/40 °C	0 °C/40 °C
Interface RS-232	yes	yes
2. Interface RS-232, separate Y cable	CFS-A04, € 38,-	CFS-A04, € 38,-
Interface RS-485	-	-
Interface USB	-	-
Interface Bluetooth	KERN KFB-A03, € 160,-	-
Analogue module	0–10V: KERN KFB-A04, € 170,-; 4–20 mA: KERN KFB-A05, € 170,-;	-
Signal lamp	CFS-A03, € 310,-	CFS-A03, € 310,-
Foot switch	=	-
Stand	BFS-A07, € 160,-	BFS-A07, € 160,-
Benchtop stand for display device/wall mount	yes/yes	yes/yes
Protective working cover	KFB-A02S05, € 44,-	KFB-A02S05, € 44,-
Rechargeable battery pack	KFB-A01, € 40,-	KFB-A01, € 40,-
Operating/charging time	up to 35 h/12 h	up to 40 h/12 h
Dimensions Housing W×D×H	250×160×65 mm	260×150×65 mm
Net weight	1,2 kg	1,5 kg
Price, excl. of VAT, ex works, €	230,-	280,-

- not possible in combination with verification. When installing the Bluetooth data interface, the RS-232 data interface can no longer be used
- ** not possible in combination with signal lamp. When installing the analogue module, the RS-232 data interface can no longer be used



Practical Flip/Flop Display Device for greatest ease of use

Features

KERN KIB-M01, € 104,-

- Practical Flip/Flop display device:
 flexible positioning e.g. free-standing or screwed
 to the wall (optional). By rotating the upper
 housing shell you can determine the angle of the
 display as well as the cable outlet.
 Factory Option ex works for an additional cost,
 delivery time + 2 working days,
- Industry 4.0: A large number of (optional) data interfaces enable convenient transferring weighing data to tablets, labtops, PCs, networks, smartphones, printers, etc.
- Searching and remote control of the balance using external control devices or computers with the KERN Communication Protocol (KCP).



4 KERN KFN-TM

Stainless steel display device with IP65 protection and superior display size and optional analogue output for controlling systems (PLC) etc.

| Tip

ACCU

 to see what options are offered by this display device, please see the KERN SFB platform scale on page 78

ANDARD STANDARD STANDARD

360,-

which is integrated as standard, only one other

data interface can be installed and operated

Features	Model KERN	Model KERN
	3 KIB-TM	4 KFN-TM
Display (segments)	6 digits	5 + 1/2 digits
EC type approval	yes	yes
Resolution verifiable	6000 e	6000 e
Resolution non verifiable	60000 d	30000 d
Weighing capacities	≤ 2	≤ 2
Weighing units	kg, g	kg
Readability	1, 2, 5, 10, n	1, 2, 5, 10, n
Piece counting with reference	5, 10, 20, 25, 50, 100	10, 20, 50, 100, 200
Display, digit height	Backlit LCD display, 24 mm	Backlit LCD display, 52 mm
Additional functions	Totalising, HOLD function, printing of time. KCP Only possible through RS-232 USB, Bluetooth, WiFi, Digital I/O, LAN on request	Totalising, HOLD function ;
Strain gauge load cells	87-1100 Ω	87 - 1600 Ω
Linearisation	3 points	3 points
Input voltage	12 V DC, 1000 mA	12 V, 500 mA
Permissible ambient temperature	-10 °C/40 °C	-10 °C/40 °C
Interface RS-232	yes*	KFN-A01, € 225,-
Interface RS-485	-	_
Interface USB	KIB-A03*, € 120,-	-
Interface Bluetooth	KIB-A04, € 110,-	-
WiFi	KIB-A10*, € 140,-	=
SWITCH (DIGITAL I/O)	-	-
LAN	KIB-A02*, € 165,-	-
Alibi memory	KIB-A01, € 175,-	-
Analogue module	-	0-10V: KERN KFB-A04, € 170,-; 4-20 mA: KERN KFB-A05, € 170,-;
Stand	EOC-A05, € 65,-	BFS-A07, € 160,-
Benchtop stand for display device/wall mount	EOC-A04, € 33,-	yes/yes
Protective working cover	EOC-A01S05, € 55,-	_
Rechargeable battery pack	KFB-A01, € 40,-	GAB-A04, € 42,-
Operating/charging time	up to 43 h/3 h	up to 35 h/12 h
Dimensions Housing W×D×H	268×115×70 mm	266×165×96 mm
Net weight	0,8 kg	2,6 kg
	· · ·	

- not possible in combination with verification. When installing the Bluetooth data interface, the RS-232 data interface can no longer be used
- ** not possible in combination with signal lamp. When installing the analogue module, the RS-232 data interface can no longer be used

220,-

Price, excl. of VAT, ex works, €











- · Simplified battery replacement through easilyaccessible housing. Particularly advantageous for models with optional verification, as the verification seal remains intact
- · With Real Time Clock as standard: Enables you to log the weighing results with accurate time information. Even if the power supply is interrupted, the balance can continue to work with the correct time

Accessories

- · Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, € 160,-
- · Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, € 35,-
- External data interface RS-232, interface cable included, KERN KUP-01, € 60,-
- · External data interface USB, interface cable included, KERN KUP-03, € 75,-
- · External data interface Ethernet, KERN KUP-04, € 115,-
- · External data interface WiFi, interface cable included, KERN KUP-05, € 75,-
- · Bluetooth interface adapter, KERN KUP-06, € 99,-
- · Analogue module, KERN KUP-08, € 170,-
- *Extension box for connecting up to three interfaces in parallel, KERN KUP-13, € 75,-
- · Memory module (alibi memory), KERN YMM-04, € 80,-
- · Signal lamp for visual support of weighing with tolerance range, connection is only possible in combination with KUP-01 (RS 232 interface), KERN CFS-A03, € 310,-

Display device with up to three interfaces and optional verification

Features

- · Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- Industry 4.0: Data and control commands can be exchanged through the KERN Universal Port using one interface, which can be connected to the housing, or through three parallel interfaces using the KUP Extension box
- · The following interfaces are available as an option: RS-232, USB, Analogue module, Ethernet, WiFi, Bluetooth

- · Each interface can be set up separately, e.g.:
- Interface 1 (WiFi): Continuous sending to PC for documentation of a process
- Interface 2 (RS 232): Print stable weight
- Interface 3 (analogue module): Controlling a device when the target weight is reached
- · Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further
- Data guery and remote control of the balance using a computer or CRM/ERP systems using the KERN Communication Protocol

STANDARD



Features



Display (segments)































6



Model KERN

KFC-TM















EU type approval yes Resolution (verifiable) 3.000 / 2 × 3.000 100 - 999.999 Resolution (non verifiable) Weighing capacities single-range / 2 × multi-range / 2 × multi-division kg, g, lb, ffa, PCS, % | Verifiable: kg, g Weighing units Piece counting with reference 5, 10, 20, 50, n Display, digit height 50 mm 87 - 1100 Ω Strain gauge load cells Linearisation (points) 2/3/5 110 V - 240 V AC Input voltage Accu operation time - without backlight 48 h Accu charging time 220×145×65 mm Dimensions Housing W×D×H

0,7 kg

230,-

-10°C/40°C

Net weight

Permissible ambient temperature Price, excl. of VAT, ex works, €









Accessories

- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, € 35,-
- GB mains adapter, cable length 1,5 m, KERN KXS-A06, € 109,-
- Stand to elevate display device, height of stand approx. 1040 mm, KERN BFS-A07, € 160,-
- · Internal data interface RS-232, interface cable included, KERN KUM-01, € 120,-
- · Internal data interface USB, interface cable included, KERN KUM-03, € 120,-
- · Internal data interface Ethernet, interface cable included, KERN KUM-04, € 165,-
- · Internal data interface WiFi, KERN KUM-05, € 95,-
- · Internal data interface Bluetooth, KERN KUM-06, € 135,-
- Analogue module, KERN KUM-08, € 145,-
- · Memory module with real time clock (alibi memory), KERN YMM-06, € 160,-

Stainless steel display device with IP68 dust and spray protection and up to four interfaces

Features

- With dust and spray protection (IP68), which makes it ideal for use in industry and outdoors
- · Standardised, convenient KERN concept of operation, consistency across products in terms of design, menu structure, button functions, interface connection and interface protocol
- Industry 4.0: The exchange of data and control commands is optional using up to four interfaces to suit individual requirements: two wired connections (RS 232, Ethernet, USB or analogue module) and two wireless connections (WiFi or Bluetooth)
- · Each interface can be set up separately, e.g.:

- Interface 1 (WiFi): Continuous sending to PC for documentation of a process
- Interface 2 (RS-232): Print stable weight
- Interface 3 (analogue module): Controlling a device when the target weight is reached
- Interface 4 (Bluetooth): Continuous sending to a tablet to monitor a process
- · Data query and remote control of the balance using a computer or CRM/ERP systems using the KERN Communication Protocol
- · Available as an option with alibi memory for paperless archiving of weighing results. This also means the results of weighings with mandatory verification can be electronically evaluated and processed further

*Note: only two wired connections (RS-232, Ethernet, USB or analogue module) and two

wireless connections (WiFi or Bluetooth) can be used at the same time

STANDARD



Features



























Model KERN

-10°C/40°C

400,-

KXC-TM















	1919 1111	
Display (segments)	6	
EU type approval	yes	
Resolution (verifiable)	3.000 / 2 × 3.000	
Resolution (non verifiable)	100 - 999.999	
Weighing capacities	single-range / 2 × multi-range / 2 × multi-division	
Weighing units	kg, g, lb, ffa, PCS, %	
Piece counting with reference	5, 10, 20, 50, n	
Display, digit height	48 mm	
Strain gauge load cells	87 - 1100 Ω	
Linearisation (points)	2/3/5	
Input voltage	110 V - 240 V AC	
Accu operation time - without backlight	48 h	
Accu charging time	8 h	
Dimensions Housing W×D×H	232×150×80 mm	

Permissible ambient temperature Price, excl. of VAT, ex works, €



■ KERN KBP-V20 IP65

Platform

Features

- Stainless steel-weighing plate, A Painted steel base
- 1 load cell, aluminium, silicone-coated, IP65, OIML-R60-approved, class III, 3000 e
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard
- · Preparation for easy assembly of the ESD earthing kit on the weighing bridge



E KERN KFP-V20 IP65

Platform

Features

- Stainless steel-weighing plate, **B** Painted steel base
- 1 load cell, aluminium, silicone-coated, IP65, OIML-R60-approved, class III, 3000 e
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard



E KERN KXP-V20 IP65

Platform

Features

- Stainless steel-weighing plate, C Painted steel base, extremely rigid, wing design
- 1 load cell, aluminium, silicone-coated, IP65, OIML-R60-approved, class III, 3000 e
- · Level indicator and levelling feet for precise levelling of the scale, fitted as standard











FACTORY



STANDARD









STANDARD





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17	ΥЦ	

Model	Weighing capacity	Readability	Verification value	Minimal load	Cable length	Net weight	Weighing plate	Price excl. of VAT
	[Max]	[d]	[e]	[Min]	approx.	approx.	$W \times D \times H$	ex works
KERN	kg	g	g	g	m	kg	mm	€
Platform KBP-V	/20 IP65							
KBP 6V20LM	3 6	0,2	1 2	20 40	2,5	3,8	300×300×110	200,-
KBP 15V20M	6 15	0,5	2 5	40 100	2,5	3,8	300×240×110	200,-
KBP 15V20LM	6 15	0,5	2 5	40 100	2,5	7	400×300×110	220,-
KBP 30V20M	15 30	1	5 10	100 200	2,5	7	400×300×110	220,-
KBP 60V20M	30 60	2	10 20	200 400	2,5	7	400×300×110	230,-
KBP 60V20LM	30 60	2	10 20	200 400	2,5	10	500×400×120	270,-
KBP 150V20M	60 150	5	20 50	400 1000	2,5	10	500×400×120	320,-
KBP 150V20LM	60 150	5	20 50	400 1000	2,5	19	650×500×150	450,-
KBP 300V20M	150 300	10	50 100	1000 2000	2,5	19	650×500×150	480,-
KBP 600V20M	300 600	20	100 200	2000 4000	2,5	42	800×600×200	650,-
2 Platform KFP-V	20 IP65							
KFP 3V20M	3	0,1	1	20	2,5	3,4	230×230×103	205,-
KFP 6V20M	6	0,2	1 2	20 40	2,5	4,4	230×230×103	185,-
KFP 6V20LM	6	0,2	1 2	20 40	2,5	3,8	300×240×105	250,-
KFP 15V20M	6 15	0,5	2 5	40 100	2,5	3,8	300×240×105	250,-
KFP 15V20LM	6 15	0,5	2 5	40 100	2,5	7	400×300×114	315,-
KFP 30V20SM	15 30	1	5 10	100 200	2,5	3,8	300×240×105	250,-
KFP 30V20M	15 30	1	5 10	20	2,5	7	400×300×114	315,-
KFP 30V20LM	15 30	1	5 10	20	2,5	10	500×400×124	395,-
KFP 60V20M	30 60	2	10 20	200 400	2,5	7	400×300×114	330,-
KFP 60V20LM	30 60	2	10 20	200 400	2,5	10	500×400×124	405,-
KFP 150V20M	60 150	5	20 50	400 1000	2,5	10	500×400×124	415,-
KFP 150V20LM	60 150	5	20 50	400 1000	2,5	19	650×500×136	600,-
KFP 300V20M	150 300	10	50 100	1000 2000	2,5	19	650×500×136	600,-
KFP 600V20AM	600	20	200	4000	2,5	42	800×600×189	910,-
8 Platform KXP-\								
KXP 6V20LM*	3 6	0,2	1 2	20 40	3	3,8	300×240×90	310,-
KXP 15V20M*	6 15	0,5	2 5	40 100	3	6	300×240×90	320,-
KXP 15V20LM*	6 15	0,5	2 5	40 100	3	8	400×300×90	430,-
KXP 30V20M*	15 30	1	5 10	100 200	3	8	400×300×90	430,-
KXP 30V20LM*	15 30	1	5 10	100 200	3	22	500×400×125	570,-
KXP 60V20M*	30 60	2	10 20	200 400	3	11	400×300×90	440,-
KXP 60V20LM*	30 60	2	10 20	200 400	3	17	500×400×125	600,-
KXP 150V20M*	60 150	5	20 50	400 1000	3	18	500×400×125	570,-
KXP 150V20LM*	60 150	5	20 50	400 1000	3	34	650×500×135	710,-
KXP 300V20M*	150 300	10	50 100	1000 2000	3	34	650×500×135	710,-

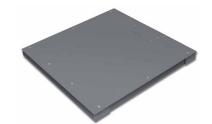




KERN KIP-V20M Weighing Bridge

Features

- · Weighing bridge with non-slip chequer plate, lacquered, welded
- 4 Load cells, steel, silicone-coated, IP67, OIML-R60-approval for verification, class III,
- Can be built in using pit frames (optional)
- · Level indicator and levelling feet for precise levelling of the scale
- · Easy access to the junction boxfrom the top
- Comfortable levelling of the weighing bridge from the top
- Accessories see KERN BID, page 122/123



5 KERN KFP-V20 IP67 Weighing Bridge

Features

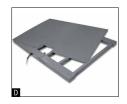
- © Weighing plate screwed on from the top (models with [Max] \leq 1500 kg), so it easy to remove, hygienic and easy to clean.
- Lacquered steel weighing bridge, weighing plate size 1500×1500×130 mm corrugated steel plate. Extremely resistant to bending due to material thickness
- · 4 Load cells, steel, silicone-coated, IP67, OIML-R60-approval for verification, class III,
- Can be built in using pit frames (optional)
- · Level indicator and levelling feet for precise levelling of the scale
- Easy access to the junction boxfrom the top
- · Comfortable levelling of the weighing bridge from the top
- Accessories see KERN BFB, page 124/125



6 KERN KFD-V20 Weighing Bridge

Features

- · Weighing bridge made of non-slip corrugated steel plate, lacquered, two access ramps integrated, extremely resistant to bending
- Extremely flat construction to facilitate access: access height only 45 mm
- · 4 Load cells, alloy steel, silicone-coated, IP67, OIML-R60-approved class III, 3000 e
- · Accessories see KERN NFB page 133















)	FACTOR
	M
2 DAYS	LVL

Model KERN	Weighing range [Max] kg	Readability [d] g	Verification value [e] g	Min. Ioad [Min] g	Cable length approx.	Net weight approx. kg	Weighing plate W×D×H mm	Price excl. VAT, ex works €
4 Weighing bridge K	IP-V20M							
KIP 1500V20SM	1500	500	500	10000	5	130	1000×1000×108	1290,-
KIP 1500V20EM	1500	500	500	10000	5	140	1200×1000×108	1290,-
KIP 1500V20M	1500	500	500	10000	5	150	1500×1200×108	1610,-
KIP 3000V20M	3000	1000	1000	20000	5	150	1500×1200×108	1610,-
KIP 3000V20LM	3000	1000	1000	20000	5	180	1500×1500×108	1830,-
5 Weighing bridge K	FP-V20 IP67							_
KFP 1500V20NM	1500	500	500	10000	5	135	1500×1250×90	1950,-
KFP 3000V20NM	3000	1000	1000	20000	5	135	1500×1250×90	2250,-
KFP 3000V20LNM	3000	1000	1000	20000	5	155	1500×1500×80	2520,-
6 Weighing bridge K	FD-V20							
KFD 600V20M*	600	200	200	4000	5	125	1600×1200×78	2210,-
KFD 600V20LM*	600	200	200	4000	5	155	1800×1400×80	2590,-
KFD 1500V20M*	1500	500	500	10000	5	125	1600×1200×78	2210,-
KFD 1500V20LM*	1500	500	500	10000	5	175	1800×1400×78	2590,-





KERN KFA-V20 **Weighing Beams**

Features

- · Weighing beams and painted steel base
- 4 load cells, alloy steel, silicone-coated, IP67
- Levelling feet for precise levelling of the weighing beams
- Connection cable, length 5 m
- D Image below: Version up to 6 t available. Each weighing beam has a roller and handle for easy transport of the scale (KERN KFA-L)
- Special feature: model with short weighing beams, ideal for weighing compact items or animals in transport boxes
- ► KERN KFA-600V20S
- Accessories see KERN UFA, page 127



B KERN KFU-V20/V30 **U-Weighing Bridge**

Features

- · Load range: painted steel (V20), stainless steel (V30) height 90 mm
- 4 load cells, alloy steel, silicone-coated, IP67, OIML-R60-approval for verification, class III,
- 2 rollers and handle for easy transport of the scale
- Accessories KFU-V20 see KERN UFB, page 130
- Accessories KFU-V30 see KERN UFN, page 131



SERN KFP-V30

Platform

Features

- · Stainless steel-weighing plate,
- **E** Stainless steel substruction
- 1 load cell, Stainless steel, silicone-coated, IP67, OIML-approved, class III, 3000 e
- · Level indicator and levelling feet for precise levelling of the scale





FACTORY



STANDARD





Model	Weighing range [Max]	Readability [d]	Verification value [e]	Min. Ioad [Min]	Cable length approx.	Net weight approx.	Weighing plate W×D×H	Price excl. VAT, ex works
KERN	kg	g	g	g	m	kg	mm	€
7 Weighing beams	KFA-V20							
KFA 600V20S*	600	200	-	-	5	30	800×120×100	820,-
KFA 1500V20*	1500	500	-	-	5	36	1200×120×100	900,-
KFA 3000V20*	3000	1000	-	-	5	36	1200×120×100	1100,-
KFA 3000V20L*	3000	1000	=	=	5	65	2000×120×100	1350,-
KFA 6000V20*	6000	2000	-	-	5	85	1200×160×80	1470,-
KFA 6000V20L*	6000	2000	-	-	5	125	2100×160×85	1870,-
8 U-Weighing bridg	ge KFU-V20							
KFU 600V20M	600	200	200	4000	5	55	840×1350×90	1180,-
KFU 1500V20M	1500	500	500	10000	5	55	840×1350×90	1150,-
8 Stainless steel l	U-Weighing bridge	e KFU-V30						
KFU 1500V30M*	1500	500	500	10000	5	55	840×1350×90	1780,-
9 Stainless steel	platform KFP-V30							
KFP 15V30M	15	1	5	100	2,5	5,0	300×240×100	700,-
KFP 30V30SM	30	10	10	200	2,5	5,0	300×240×100	690,-
KFP 30V30M	30	1	10	200	2,5	10	400×300×128	760,-
KFP 60V30M	60	2	20	400	2,5	10	400×300×128	760,-
KFP 60V30LM	60	5	20	400	2,5	10	500×400×137	950,-
KFP 60V30XLM	60	5	20	400	2,5	22	650×500×142	1370,-
KFP 150V30SM	150	10	50	1000	2,5	10	400×300×128	710,-
KFP 150V30M	150	10	50	1000	2,5	10	500×400×137	940,-
KFP 150V30LM	150	10	50	1000	2,5	22	650×500×135	1280,-
KFP 300V30M	300	20	100	2000	2,5	22	650×500×135	1200,-



III KERN KFP-V40 IP68 Stainless steel platform

Features

- · Platform: entirely out of stainless steel
- 1 load cell, stainless steel, encapsulated, IP68, OIML R60 approval for verification, class III, 3000 e
- Level indicator and levelling feet for accurate levelling of the balance



■ KERN KFP-V40 IP68 Stainless steel weighing bridge

Características

- Weighing bridge entirely made of stainless steel, extremely resistant to bending because of its high material thickness
- Weighing plate fixed with stainless steel screws, for easier access to the loadcells from above
- 4 Load cells, stainless steel, encapsulated, IP68, OIML R60 approval for verification, Class III,
 2000 c
- Can be built in using pit frames (optional)
- Level indicator and levelling feet for accurate levelling of the balance
- Comfortable levelling of the weighing bridge from the top
- Accessories see KERN BFN, page 126



■ KERN KFD-V40 IP68 Stainless steel weighing bridge

Características

- Weighing bridge made from stainless steel, two integrated access ramps, extremely resistant to bending
- Extremely flat construction to facilitate access: access height only 45 mm
- 4 Load cells, stainless steel, encapsulated, IP68, OIML R60 approval for verification, Class III, 3000 a
- Level indicator and levelling feet for accurate levelling of the balance
- Accessories see KERN NFN, page 134















Model	Weighing capacity	Readability	Verification value	Minimal load	Cable length	Net weight	Weighing plate	Price excl. of VAT
	[Max]	[d]	[e]	[Min]	approx.	approx.	$W \times D \times H$	ex works
KERN	kg	g	g	g	m	kg	mm	€
10 Stainless steel	platform KFP-V40 IP6	8						
KFP 6V40M	NEW 6	0,5	1 2	20	3	5,0	300×240×104	900,-
KFP 15V40M	NEW 15	1	2 5	40	3	5,0	300×240×104	900,-
KFP 15V40LM	NEW 15	1	2 5	40	3	5,0	400×300×107	930,-
KFP 30V40M	NEW 30	2	5 10	100	3	8	400×300×107	930,-
KFP 30V40LM	NEW 30	2	5 10	100	3	8	500×400×107	1010,-
KFP 60V40M	NEW 60	5	10 20	200	3	8	400×300×120	950,-
KFP 60V40LM	NEW 60	5	10 20	200	3	10	500×400×124	1050,-
KFP 150V40M	150	10	20 50	400	3	10	500×400×124	1050,-
KFP 150V40LM	NEW 150	10	20 50	400	3	22	650×500×136	1330,-
KFP 300V40M	300	20	50 100	1000 2000	3	22	650×500×136	1250,-
Stainless steel weighing bridge KFP-V40 IP68								
KFP 3000V40M	3000	1000	1000	20000	5	135	1500×1250×80	4540,-
12 Stainless steel	☑ Stainless steel weighing bridge KFD-V40 IP68							
KFD 600V40M*	600	200	200	4000	5	130	1600×1200×78	4080,-
KFD 1500V40M*	1500	500	500	10000	5	130	1600×1220×95	4050,-

13



LOAD CELLS

Accuracy classes with nominal loads from 300 g to 100 t and protection classes up to IP69K as well as cells protected according to ATEX or OIML approved cells are available to you from now in the SAUTER product range. Whatever the project – whether it's the development of customised weighing systems, installation in silos and storage tanks or in shelving for continuous inventory, for special application in mechanical engineering or in any type of test bench – SAUTER can offer you just the right load cell.

Of course, we can also supply you with the appropriate accessories such as load corners, pivot heads, display devices, junction boxes or the relevant calibration certificate at the same time.

Any special requests? Do you need special load cells, other capacities or cable lengths, individual force test benches or a special mount for your test item?

No problem, our product specialist for force-load cells Mr Stefan Herrmann is available at any time to help you further and will work with you to develop a customised concept for your application.



Everything about load cells in the SAUTER catalogue 2024.



Stefan Herrmann
Product specialist Load cells

Tel. +49 7433 9933-214 stefan.herrmann@kern-sohn.com

BALANCE MANUFACTURE

Load cell + Junction Box + KERN YKV









CP P4 · CP Y4 Single-point load cells made of anodised aluminium

Technical data

- CP P4: Accuracy in accordance with OIML R60 C3
- · CP Y4: Accuracy in accordance with OIML R60 C2
- · CE and RoHS compliant
- Dust and spray protection to IP65 (in accordance with EN 60529)
- · Aluminium, anodised
- · Suitable for price-computing scales, bench scales, platform scales, etc.
- Maximum platform size 200×200 mm

IP 65

- Nominal sensitivity: 0,9 mV/V

- · 4-wire connection
- · Cable length approx. 0,4 m
- STANDARD OPTION

Model	Nominal load	Price excl. of VAT ex works	
SAUTER	kg	€	
CP 300-0P4	0,3	65,-	
CP 600-0P4	0,6	65,-	
Model	Nominal load	Price excl. of VAT	

Wiodei	Nominal load	excl. of VAT ex works
SAUTER	kg	€
ECO design		
CP 300-0Y4	0,3	55,-
CP 1500-0Y4	1,5	55,-
CP 3000-0Y4	3	55,-

CP P1 · CP Y1 Single-point load cells made of anodised aluminium

Technical data

- · CP P1: Accuracy in accordance with OIML R60 C3
- CP Y1: Accuracy in accordance with OIML R60 C2
- · CE and RoHS compliant
- Dust and spray protection to IP65 (in accordance with EN 60529)
- · Aluminium, anodised
- · Suitable for price-computing scales, bench scales, platform scales, etc.
- Maximum platform size 250×350 mm
- 4-wire connection
- Nominal sensitivity: 2 mV/V
- · Note: Version in accordance with OIML R60 C4 or C5 on request

STANDARD OPTION IP 65 +3 DAYS

Model	Nominal	Cable	Price
	load	length	excl. of VAT
			ex works
SAUTER	kg	m	€
CP 3-3P1	3	0,4	60,-
CP 3-2-3P1	NEW 3	2	74,-
CP 5-3P1	5	0,4	60,-
CP 6-3P1	6	0,4	60,-
CP 8-3P1	8	0,4	60,-
CP 10-3P1	10	0,4	60,-
CP 10-3-3P1	NEW 10	3	78,-
CP 15-3P1	15	0,4	60,-
CP 15-3-3P1	NEW 15	3	78,-
CP 20-3P1	20	0,4	60,-
CP 30-3P1	30	0,4	60,-
CP 35-3P1	35	0,4	60,-
CP 35-3-3P1	NEW 35	3	78,-
CP 40-3P1	40	0,4	60,-
CP 50-3P1	50	0,4	60,-
CP 50-2-3P1	№ 50	2	74,-

New model

Model	Nominal Ioad	Cable length	Price excl. of VAT ex works
SAUTER	kg	m	€
ECO design (w	ithout EC ty	pe appro	val)
CP 3-2Y1	3	0,4	33,-
CP 5-2Y1	5	0,4	33,-
CP 10-2Y1	10	0,4	33,-
CP 15-2Y1	15	0,4	33,-
CP 20-2Y1	20	0,4	33,-
CP 30-2Y1	30	0,4	33,-

CP P3 Single-point load cells made of anodised aluminium

Technical data

- Accuracy in accordance with OIML R60 C3
- · CE and RoHS compliant
- · Dust and spray protection to IP65 (in accordance with EN 60529)
- · Suitable for price-computing scales, bench scales, platform scales, etc.
- Maximum platform size 350×400 mm
- · 4-wire connection
- Nominal sensitivity: 2 mV/V
- Note: Version in accordance with OIML R60 C4 on request
- · Cable length approx. 3 m

STANDARD		OPTION	
444		DAkkS	ISO
IP 65	1 DAY	+3 DAYS	+4 DAY

Model	Nominal load	Price excl. of VAT ex works
SAUTER	kg	€
CP 30-3P3	30	76,-
CP 40-3P3	40	76,-
CP 50-3P3	50	76,-
CP 75-3P3	75	76,-
CP 100-3P3	100	77,-

Further details and technical data sheet as well as an extensive range of accessories can be found at the internet







CP P2 · CP P8 Single-point load cell of aluminium

Technical data

- · Accuracy in accordance with OIML R60 C3
- · RoHS compliant
- · Dust and spray protection to IP65 (in accordance with EN 60529)
- · Aluminium, anodised
- · Suitable for price-computing scales, bench scales, etc.
- Maximum platform size 100-300 kg: 400×400 mm
- Maximum platform size 400-500 kg: 450×450 mm
- Nominal sensitivity: 2 mV/V
- · Note: Version in accordance with OIML R60 C4 or C5 on request
- Cable length CP P2: 2 m Cable length CP P8: 3 m

CP P7 Single-point load cells of stainless steel

Technical data

- · Accuracy in accordance with OIML R60 C3
- RoHS compliant
- · Dust and spray protection to IP67 (in accordance with EN 60529)
- · Stainless steel
- · Application example: Weight as well as compressive force measurements under harsh environmental conditions
- Suitable for bench scales, price-computing scales
- Maximum platform size 400×400 mm
- 6-wire connection
- Nominal sensitivity: 2 mV/V
- Note: Version in accordance with OIML R60 C4 on request
- · Cable length approx. 1 m

CP P9 Single-point load cells of stainless steel

Technical data

- Accuracy in accordance with OIML R60 C3
- RoHS compliant
- Dust and spray protection to IP68/IP69K (in accordance with EN 60529), welded to create a hermetic seal
- · Stainless steel
- · Area of application: Weight measurement as well as compressive force in harsh environments
- · Suitable for platform scales, checkweighers
- Maximum platform size 10-50 kg: 400×400 mm
- Maximum platform size 100-500 kg: 800×800 mm
- 4-wire connection (10-50 kg)
- 6-wire connection (100-500 kg)
- Nominal sensitivity: 2 mV/V
- · Note: Version in accordance with OIML R60 C4 or C5 on request
- · Cable length approx. 3 m









Model	Nominal load	Price excl. of VAT ex works
SAUTER	kg	€
CP 100-3P2	100	81,-
CP 150-3P2	150	81,-
CP 200-3P2	200	81,-
CP 300-3P2	300	81,-
CP 400-3P2	400	81,-
CP 500-3P2	500	81,-
CP 50-3P8	50	123,-
CP 100-3P8	100	123,-
CP 150-3P8	150	123,-
CP 200-3P8	200	123,-
CP 250-3P8	250	123,-
CP 300-3P8	300	123,-
CP 500-3P8	500	123,-
CP 600-3P8	600	123,-



Model	Nominal load	Price excl. of VAT ex works
KERN	kg	€
CP 30-3P7	30	270,-
CP 50-3P7	50	270,-
CP 75-3P7	75	270,-
CP 100-3P7	100	270,-
CP 150-3P7	150	270,-





Further details and technical data sheet as well as an extensive range of accessories can be found at the internet





Model	Nominal load	Price excl. of VAT ex works
SAUTER	kg	€
CP 10-3P9	10	380,-
CP 20-3P9	20	380,-
CP 50-3P9	50	380,-
CP 100-3P9	100	570,-
CP 200-3P9	200	580,-
CP 300-3P9	300	580,-
CP 400-3P9	400	580,-
CP 500-3P9	500	580,-

■ ONLY WHILE STOCKS LAST!





Fig. shows accessories, load corner 1 SAUTER CE Q42901, for further accessories please visit our online shop





CR Q1 Load cells made of stainless steel

Technical data

- · Accuracy in accordance with OIML R60 C1
- · RoHS compliant
- Dust and spray protection to IP68 (in accordance with EN 60529), hermetically encapsulated
- · Stainless steel
- · Area of application: Weight measurement as well as compressive force
- · Suitable for vehicle scales, funnel scales, vehicle testing equipment, test stands
- · Nominal sensitivity: 2 mV/V
- Cable length approx. 10 m

Accessories CR Q1:

- I Load corner, steel, galvanised, suitable for CR Q1 with nominal load \leq 10 t, SAUTER CE Q42901, € 265,-
- Load corner, steel, galvanised, suitable for CR Q1 with nominal load \geq 20 t. SAUTER CE Q42902, € 420,-
- · Load corner, steel, rustproof, suitable for CR Q1 with nominal load \leq 10 t, SAUTER CE RQ42901, € 475,-
- Load corner, steel, rustproof, suitable for CR Q1 with nominal load ≥ 20 t, SAUTER CE RQ42902, € 810,-

CR P1 Load cells made of stainless steel

Technical data

- · Accuracy in accordance with OIML R60 C3
- · RoHS compliant
- Dust and spray protection to IP68 (in accordance with EN 60529), hermetically encapsulated
- · Stainless steel
- · Area of application: Weight measurement as well as compressive force
- Suitable for truck scales, suspended scales, silo scales and other diverse scales, test stands, etc.
- · Nominal sensitivity: 1-2 mV/V, depending on nominal load
- · Cable length up to 1000 kg: 3 m Cable length from 2000 kg: 6 m

Accessories CR P1:

- · Load corner for CR 1000-3P1, CR 250-3P1, CR 500-3P1 Steel, incl. pressure piece, SAUTER CE P244011, € 600,-
- Pressure piece for CR 1000-3P1, CR 250-3P1, CR 500-3P1 steel. SAUTER CE P244012, € 115,-
- · Load corner for CR 2000-3P1 steel, rustproof, incl. pressure piece, SAUTER CE P244021, € 720,-
- · Pressure piece for CR 2000-3P1 steel, rustproof SAUTER CE P244022, € 125,-

CRY1 Load cells made of alloyed steel

Technical data

- High precision (comprehensive Error 0,05 % F.S.)
- · Accuracy in accordance with OIML R60 C1
- · RoHS compliant
- Dust and spray protection to IP68 (in accordance with EN 60529), hermetically encapsulated
- · Stainless steel
- · Area of application: for weight, tensile and compressive force measurement
- · Suitable for weight measurement as well as force and force test stands
- · Force transmission via pressure piece or threaded hole
- · Nominal sensitivity: 2 mV/V
- Pressure piece included in delivery
- Thread for pressure piece or other force application: up to 5000 kg M16×1,5, from 10000 kg M32×1,5
- Cable length approx. 3 m

Tip

Further details and technical data sheet as well as an extensive range of accessories can be found at the internet

STANDARD





Model SAUTER	Nominal load	Price excl. of VAT ex works €
CR 2500-1Q1	2,5 t/25 kN	285,-
CR 5000-1Q1	5 t/50 kN	285,-
CR 10000-1Q1	10 t/100 kN	285,-
CR 20000-1Q1	20 t/200 kN	560,-
CR 30000-1Q1	30 t/300 kN	560,-

^{**} up to max. 25 t/250 kN

STANDARD		OPTION	
444		DAkkS	ISO
IP 68	1 DAY	+3 DAYS	+4 DAYS
		*	
N 4 1 - 1			

Model SAUTER	Nominal load	Price excl. of VAT ex works €
CR 60-3P1	60 kg/0,6 kN	930,-
CR 130-3P1	130 kg/1,3 kN	980,-
CR 250-3P1	250 kg/2,5 kN	890,-
CR 500-3P1	500 kg/5 kN	860,-
CR 1000-3P1	1000 kg/10 kN	860,-
CR 2000-3P1	2000 kg/20 kN	860,-

^{*} up to max. 500 kg/5 kN







Model SAUTER	Nominal load	Price excl. of VAT ex works €
CR 500-1Y1	0,5 t/5 kN	270,-
CR 1000-1Y1	1 t/10 kN	270,-
CR 5000-1Y1	5 t/50 kN	270,-
CR 10000-1Y1	10 t/100 kN	430,-
CR 20000-1Y1	20 t/200 kN	430,-

up to max. 500 kg/5 kN





Fig. shows accessories, base plate SAUTER CE Q30903 bearings

2 SAUTER CE Q30904, for further accessories please visit our online shop

Fig. shows optional accessories load corner 3 **SAUTER CE P4022**



CB Q1 · CB Q2 Bending beam and shear beam load cells made of stainless steel

Technical data

- Accuracy in accordance with OIML R60 C3
- · CE and RoHS compliant
- · Dust and spray protection to IP68/IP69K (in accordance with EN 60529), welded to create a hermetic seal
- · Stainless steel
- · Area of application: Weight measurement as well as compressive force in harsh environments
- · Suitable for platform scales, funnel scales, floor scales and other weighing devices
- · 4-wire connection
- · Nominal sensitivity: 2 mV/V
- · Cable length approx. 3 m
- Note: Accuracy class OIML R60 C6 or EX version on request

CB P1 Load cells made of stainless steel

Technical data

- · Accuracy in accordance with OIML R60 C3
- · CE and RoHS compliant
- · Dust and spray protection to IP67 (in accordance with EN 60529), hermetically encapsulated
- · Nickel-plated steel
- · Area of application: Weight measurement as well as compressive force in harsh environments
- · Suitable for platform scales, silo scales, bed scales and other diverse scales
- · 4-wire connection
- · Nominal sensitivity: 3 mV/V
- · Cable length approx. 4 m

Accessories CB Q1 · CB Q2:

- · Traction device, steel, galvanised, suitable for CB Q1, SAUTER CE Q30901, € 85,-
- Traction device, steel, rustproof, suitable for CB Q2, SAUTER CE Q34905, € 90,-
- Base plate, steel, galvanised, suitable for CB Q1, SAUTER CE Q30903, € 100,-
- · Base plate, steel, rustproof, suitable for CB Q1, SAUTER CE RQ30903, € 190,-
- · Base plate, steel, rustproof, suitable for CB Q2, SAUTER CE Q34903, € 95,-
- Bearing, steel, rustproof, suitable for CB Q1 (nominal load 5 kg-50 kg), SAUTER CE Q30904, € 120,-
- · Bearing, steel, rustproof, suitable for CB Q1 (nominal load 75 kg-300 kg), SAUTER CE Q30905, € 120,-
- · Bearing, steel, rustproof, suitable for CB 500-3Q1, SAUTER CE Q30906, € 205,-
- · Bearing, steel, rustproof, suitable for CB 750-3Q2, CB 1000-3Q2, CB 1500-3Q2, SAUTER CE Q34906, € 190,-
- · Load corner, steel, galvanised, suitable for CB Q1, SAUTER CE Q30907, € 220,-
- · Load corner, steel, rustproof, suitable for CB Q1, SAUTER CE RQ30907, € 315,-
- · Adjustable foot, steel, rustproof, suitable for SAUTER CE Q34901, € 70,-

STANDARI	D	
444	444	
IP 68	IP69K	1 DAY

Model



Nominal load

Price

240,-

240,-

		excl. of VAT ex works
SAUTER	kg	€
CB 5-3Q1	5	230,-
CB 10-3Q1	10	230,-
CB 20-3Q1	20	230,-
CB 30-3Q1	30	230,-
CB 50-3Q1	50	230,-
CB 75-3Q1	75	230,-
CB 100-3Q1	100	230,-
CB 150-3Q1	150	230,-
CB 200-3Q1	200	230,-
CB 250-3Q1	250	230,-
CB 300-3Q1	300	230,-
CB 500-3Q1	500	230,-
CB 750-302**	750	240 -

1500 ■ ** ONLY WHILE STOCKS LAST! * up to max. 500 kg

1000

STANDARD







Model	Nominal load	Price excl. of VAT ex works
SAUTER	kg	€
CB 100-3P1	100	114,-
CB 250-3P1	250	114,-

Accessories CB P1:

- · Adjustable foot, steel, nickel-plated, load base M12 for CT 500-3P1, CT 1000-3P1 and CT 1500-3P1, SAUTER CE P2012, € 27,-
- Is Load corner, steel, nickel-plated for CT 500-3P1, CT 1000-3P1 and CT 1500-3P1, SAUTER CE P4022, € 195,-
- · Spacer plates for bending beam CB P1 made of steel, SAUTER CE P3012, € 9,-

CB 1000-3Q2**

CB 1500-3Q2**





Fig. shows optional accessories load corner

SAUTER CE RQ35903

Fig. shows optional accessories load corner 2 SAUTER CE P4022

CT P1 · CT P2 Load cells made of stainless steel

Technical data

CT Q1

• Accuracy in accordance with OIML R60 C3

Shear beam made of stainless steel

- · CE and RoHS compliant
- Dust and spray protection to IP68/IP69K (in accordance with EN 60529), welded to create a hermetic seal
- · Stainless steel
- Area of application: Weight measurement as well as compressive force in harsh environments
- Suitable for platform scales, funnel scales, flush-mounted floor scales and other weighing devices
- · 6-wire connection
- Nominal sensitivity: 2 mV/V
- Cable length approx. 5 m
- Note: EX version on request

Technical data

- · Accuracy in accordance with OIML R60 C3
- · CE and RoHS compliant
- Dust and spray protection to IP67 (in accordance with EN 60529), welded to create a hermetic seal
- · Nickel-plated steel
- Area of application: Weight measurement as well as compressive force in harsh environments
- Suitable for platform scales, funnel scales, flush-mounted floor scales and other weighing devices
- · 4-wire connection
- Nominal sensitivity: 3 mV/V
- Cable length up to 1000 kg: 4 m
 Cable length from 1500 kg: 6 m
- Note: EX version, 6-wire connection and accuracy class C4 or C5 on request
- CT P2: Delivery with calibrated characteristic value, if several cells are ordered, this means significantly less effort when aligning the corners of a platform











444		DAkkS	ISO
IP69K	1 DAY	+3 DAYS	+4 DAYS
		*	

Model	Nominal load	Price excl. of VAT ex works
SAUTER	kg	€
CT 300-3Q1	300	220,-
CT 500-3Q1	500	220,-
CT 750-3Q1	750	220,-
CT 1000-3Q1	1000	220,-
CT 1500-3Q1	1500	220,-
CT 2000-3Q1	2000	220,-
CT 3000-3Q1	3000	435,-
CT 5000-3Q1	5000	435,-
CT 7500-3Q1	7500	570,-
CT 10000-3Q1	10000	570,-

^{*} up to max. 500 kg

- Nominal load Model **Price** excl. of VAT ex works SAUTER kg € CT 500-3P1 500 98,-CT 1000-3P1 1000 98,-CT 1500-3P1 1500 98, CT 2500-3P1 2500 119. CT 3000-3P1 3000 119. CT 5000-3P1 5000 119. CT 10000-3P1 10000 173, CT 500-3P2 500 103.-CT 1000-3P2 1000 103,-CT 3000-3P2 125,-3000 CT 5000-3P2 5000 124,-CT 10000-3P2 10000 178,-
- * up to max. 500 kg

Accessories CT Q1:

- Base plate, steel, rustproof, suitable for CT Q1, SAUTER CE RQ35911, € 200,-
- Base plate, steel, rustproof, suitable for CT 3000-3Q1, CT 5000-3Q1, SAUTER CE RQ35912, € 200,-
- Base plate, steel, rustproof, suitable for CT 7500-3Q1, CT 10000-3Q1, SAUTER CE RQ35919, € 860,-
- Bearing, steel, rustproof, suitable for CT Q1, SAUTER CE RQ35909, € 165,-
- Bearing, steel, rustproof, suitable for CT 3000-3Q1, CT 5000-3Q1, SAUTER CE RQ35910, € 320,-
- Bearing, steel, rustproof, suitable for CT 7500-3Q1, CT 10000-3Q1, SAUTER CE RQ35918, € 390,-
- Load corner, steel, rustproof, suitable for CT Q1, SAUTER CE RQ35902, € 420,-
- Load corner, steel, rustproof, suitable for CT 3000-3Q1, CT 5000-3Q1, SAUTER CE RQ35903, € 620,-

Accessories CT P1 · CT P2:

- Load corner, steel, rustproof, suitable for CT 10000-3P1, CT 10000-3P2, SAUTER CE P40210, € 510,-
- Load corner, steel, nickel-plated, suitable for CT 500-3P1, CT 1000-3P1, CT 1500-3P1, SAUTER CE P4022, € 195,-
- Load corner, steel, nickel-plated, suitable for CT 2500-3P1, CT 3000-3P1, CT 5000-3P1, SAUTER CE P4025, € 260,-
- Adjustable foot, steel, rustproof, suitable for CT 500-3P1, CT 1000-3P1, CT 1500-3P1, SAUTER CE P2012, € 27,-
- Adjustable foot, steel, rustproof, suitable for CT 2500-3P1, CT 3000-3P1, CT 5000-3P1, SAUTER CE P2018, € 38,-
- Adjustable foot, steel, rustproof, suitable for CT 10000-3P1, SAUTER CE P2024, € 113,-
- Spacer plate for CT 500-3P1, CT 500-3P2, CT 1000-3P1, CT 1000-3P2 and CT 1500-3P1, SAUTER CE P3012, € 9,-
- Spacer plate for CT 2500-3P1, CT 3000-3P1, CT 3000-3P2, CT 5000-3P1 and CT 5000-3P2 SAUTER CE P3015, € 8,-
- Spacer plate for CT 10000-3P1 and
 CT 10000-3P2 SAUTER CE P30110, € 27,-







CO Y1 Miniature Button-Type Load Cells made of stainless steel

Technical data

- Accuracy in accordance with OIML G5
- High precision (comprehensive Error 0,05 % F.S.)
- · RoHS compliant
- · Dust and spray protection to IP65/IP67
- Scope of application: compressive force applications
- · Suitable for Weight measurement as well as force and force test benches
- Nominal sensitivity: 1.0 1.5 mV/V
- Cable length approx. 2 m

CO Y2 Miniature Button-Type Load Cells made of stainless steel

Technical data

- Accuracy in accordance with OIML G5
- High precision (comprehensive Error 0,05 % F.S.)
- · RoHS compliant
- Dust and spray protection to IP65
- · Scope of application: for tensile and compressive force measurement
- · Suitable for Weight measurement as well as force and force test benches
- Nominal sensitivity: 1,5 2 mV/V, depending on nominal load
- · Cable length approx. 2 m

CO Y5 Tension and compression load cells made of stainless steel

Technical data

- · Accuracy in accordance with OIML R60 G1
- · CE and RoHS compliant
- Dust and spray protection to IP66 (in accodance with EN60529)
- · Stainless steel
- · Very low design
- · Suitable for test stands, force gauges, automation systems, etc.
- · 4-wire connection
- · Nominal sensitivity: CO 0.5-Y5, CO 1-Y5: 1 mV/V CO 5-Y5, CO 10-Y5: 2 mV/V
- · Cable length approx. 2 m

Tip

Further details and technical data sheet as well as an extensive range of accessories can be found at the internet

















not CO 0.5-Y5

Model SAUTER	Nominal load	Price excl. of VAT ex works €
CO 10-Y1	10 kg/100 N	170,-
CO 20-Y1	20 kg/200 N	170,-
CO 50-Y1	50 kg/500 N	170,-
CO 100-Y1	100 kg/1 kN	170,-
CO 200-Y1	200 kg/2 kN	170,-
CO 500-Y1	500 kg/5 kN	200,-
CO 1000-Y1	1000 kg/10 kN	200,-
CO 2000-Y1	2000 kg/20 kN	235,-

* * up	ιο	500	Kg/D	ΚIV
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Model SAUTER	Nominal load	Price excl. of VAT ex works €
CO 10-Y2	10 kg/100 N	250,-
CO 20-Y2	20 kg/200 N	250,-
CO 50-Y2	50 kg/500 N	250,-
CO 100-Y2	100 kg/1 kN	310,-
CO 200-Y2	200 kg/2 kN	310,-
CO 500-Y2	500 kg/5 kN	310,-
CO 1000-Y2	1000 kg/10 kN	310,-
CO 2000-Y2	2000 kg/20 kN	345,-
	(= 1.51	

^{**} up to 500 kg/5 kN

Model SAUTER	Nominal load	Price excl. of VAT ex works €
CO 0.5-Y5	0,5 kg/5 N	365,-
CO 1-Y5	1 kg/10 N	365,-
CO 5-Y5	5 kg/50 N	365,-
CO 10-Y5	10 kg/100 N	365,-





CJ P Junctionbox for connecting several measuring cells to one evaluation unit

Technical data

- Prepared for 4-wire and 6-wire load cells
- Models available for 2 or 4 load cells
- Robust aluminium die-cast housing
- Protection against dust and spray IP65

CJ X Junctionbox for connecting several measuring cells to one evaluation unit

Technical data

- Prepared for 4-wire and 6-wire load cells
- Models available for 4 load cells

CJ X467:

 Robust stainless steel housing with protection against dust and water splashes IP67

CJ X468:

• Robust aluminium die-cast housing with protection against dust and water splashes IP68



Tip

Further details and technical data sheet as well as an extensive range of accessories can be found at the internet

Model SAUTER	Number of connection options	Price excl. of VAT ex works €
CJ P2	2	87,-
CJ P4	4	87,-
CJ P4PG	4	98,-

STANDARI	D	
444	444	
IP 67	IP 68	1 DAY
CJ X467	CJ X468	

Model SAUTER	Number of connection options	Price excl. of VAT ex works €
CJ X467	4	220,-
CJ X468	4	130,-

PALLET TRUCK SCALES

Weighing and transporting - just one operation

Speed up your warehouse and dispatch processes with the KERN pallet truck scales.

Get the exact weight of a load and at the same time, transport it to a specific location, all in one operation. This reduces commissioning times and avoids queues in front of fixed floor scales.

These mobile weighing solutions are space-saving and deliver reliable weighing results. Differences between given and actual weights can be determined quickly e.g. in the goods-in and out department. This uncovers inaccurate quantities, saves time and money and therefore ensures a very short amortisation period of the scales original cost.

KERN pallet truck scales are of robust industrial quality, with high-level protection against dust and water splashes, with high-contrast, easy-to-read displays as well as solid wheels and load rollers – all this helps to give you practical support in your work – day after day.

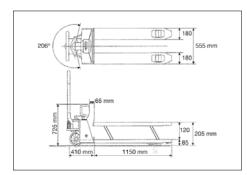
Of course, all KERN pallet truck scales can also be calibrated and delivered with a DAkkS calibration certificate (optional). This ensures the high level of accuracy of your pallet truck scale.













Pallet truck scale with complete protection against dust and water splashes IP65/67 and a memory for a container weight

Features

- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- 1 Display device: Plastic, protected against dust and water splashes IP65
- 2 Load fork: Protection against dust and water splashes IP67, temporary use in wet areas possible
- Pivot range 206°
- · Castors: Solid rubber on aluminium rims
- 3 Load rollers: Tandem tyres to overcome thresholds and obstacles more easily
- · Summation of weight values
- Ready for use: Batteries included, 4×1.5 V AA, operating time up to 80 h

Technical data

- · Large LCD display, digit height 28 mm
- Permissible ambient temperature -10 °C/40 °C

Accessories

 Castors made of polyurethane on aluminium rims. Ideal for light-coloured flooring as they leave less visible abrasive marks. Suitable for the current models of the pallet truck scale range KERN VHB (when retrofitting, please give the serial number of the pallet truck scale available when ordering), scope of delivery: 1 item, KERN VHB-A02, € 140,-

dimensions, gross weight, shipping costs



















444		\square	
IP 67	BATT	DMS	2 DAYS
2			

Model	Weighing capacity	Readability	Linearity	Net weight	Price excl. of VAT	Options DAkkS Calibr. Cert.	
	[Max]	[d]		approx.	ex works	DAkkS	
KERN	kg	kg	kg	kg	€	KERN	€
VHB 2T1	2000	1	± 2	110	1930,-	963-131	275,-

! Shipment via freight forwarder. Please ask for



5,000 items at a glance – you can find all KERN products covering weighing and measuring technology in our product catalogues:

BALANCES AND TEST SERVICE 2024

Get a full overview of the wide range from KERN, including our high-quality balances, test weights and services such as verification and calibration services.

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Our medical scales cover the full array: baby scales to personal scales, chair scales and adiposity scales through to hand grip dynamometers, pharmaceutical balances and veterinary scales, we offer the complete range.

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HANGING SCALES, CRANE SCALES

TÜV-tested safety

KERN puts great emphasis on safety. For your safety, all KERN hanging and crane scales are subject to a stringent load test in accordance with EN 13155 and (Non-fixed load lifting attachments/breakage resistance) and EN 61010-1 (Electrical safety).

As well as the classic crane scales, we also have electronic tensile dynamometers which are extremely versatile thanks to their stable, compact construction. They can, for example, be fitted into testing machines, used for checking for overload, for bracing and tensile force measurement, etc.

This type of device is ideally suited for use between shackles or with a test bench. This is where the benefit of this construction comes to the fore, as the tensile force can be applied in both directions. These compact crane scales are also particularly suitable when weighing suspended loads where space is tight.

At the core of this construction is a robust load cell. Through the absence of moving parts, these scales are practical in maintenance and wear free.

Note

DAkkS calibration and conformity evaluation for crane scales up to 12 t



Do you use your crane scales in ISO-certified processes or where verification is mandatory? Then we can produce the right calibration certificate or the relevant Declaration of Conformity for your measuring device. Thanks to a modern crane scale test unit, we can calibrate or verify crane scales and force-measuring devices from any manufacturer to a maximum load of up to 12 t or 120 kN. All the important details see *DAkkS Calibration Service* or directly from one of our test service specialists, we will be pleased to help you.

Quick-Finder Hanging Scales/Crane Scales

Readability [d]	Weighing capacity [Max]	Model	Price excl. of VAT ex works	Page	DAYS	M	CAL EXT	BT	^- MOVE	ååå IP	BATT	ACCU
kg	kg	KERN	€X WOTKS		F	or an exp	olanatio	n on the	pictos,	see the	front fla	g
0,005	5	HDB 5K5N	65,-	170	1		•				-	-
0,005	6	HDB 6K-3XL	85,-	170	1		•		•		•	
0,01	10	HDB 10K10N	65,-	170	1	-	•		•		•	
0,01	15	HDB 10K-2XL	85,-	170	1		•				•	
0,01	20	HCB 20K10	120,-	171	1		•				•	
0,02	15	CH 15K20	75,-	169	1		•		•		•	
0,02	30	HDB 30K-2XL	85,-	170	1		•	-	•		•	
0,02	50	HCB 50K20	130,-	171	1		•				•	
0,02	60	HCD 60K-2	210,-	173	1		•		•		•	0
0,02 0,05	60 150	HCD 100K-2D	220,-	173	1		•				•	0
0,05	50	CH 50K50	80,-	169	1		•		•		•	
0,05	99	HCB 99K50	110,-	171	1		•				•	
0,05	150	HCD 100K-2	210,-	173	1		•		•		•	0
0,05 0,1	150 300	HCD 300K-2D	220,-	173	1		•		•		•	0
0,05 0,1 0,2	150 300 600	HFD 600K-1	480,-	176	1		•	0				•
0,05 0,1 0,2	150 300 600	HFD 600K-1IP	590,-	176	1		•	0		•		•
0,1	50	CH 50K100	70,-	169	1		•		•		•	
0,1	50	HCB 50K100	100,-	171	1		•		•		•	
0,1	50	HCN 50K100IP	145,-	172	1		•		•	•	•	
0,1	200	HCB 200K100	130,-	171	1		•		•		•	
0,1	300	HCD 300K-1	210,-	173	1		•		•		•	0
0,1	1000	HFM 1T0.1	1010,-	180	1		•					•
0,1 0,2 0,5	300 600 1500	HFD 1T-4	490,-	176	1		•	0				•
0,1 0,2 0,5	300 600 1500	HFD 1T-4IP	590,-	176	1		•	0		•		•
0,2	100	HCB 100K200	110,-	171	1		•		•		•	
0,2	100	HCN 100K200IP	145,-	172	1		•		•	•	•	
0,2	600	HFA 600K-1	680,-	174	1		•				•	•
0,2	600	HFD 600K-1M	660,-	176	1		•	0				•
0,2	600	HFC 600K-1	1070,-	175	1		•				•	•
0,2 0,5 1	600 1500 3000	HFD 3T-3	670,-	176	1		•	0				•
0,2 0,5 1	600 1500 3000	HFD 3T-3IP	740,-	176	1		•	0		•		•
0,5	200	HCB 200K500	105,-	171	1		•		•		•	
0,5	200	HCN 200K500IP	145,-	172	1		•	-		•	•	
0,5	1000	HFA 1T-4	680,-	174	1		•				•	•
0,5	1000	HFC 1T-4	1070,-	175	1		•				•	•
0,5	1500	HFD 1T-4M	650,-	176	1	0	•	0				•
0,5	3000	HFM 3T0.5	1040,-	180	1		•					•
0,5	5000	HFM 5T0.5	1400,-	180	1		•					•
0,5 1 2	1500 3000 6000	HFD 6T-3	850,-	176	1		•	0				•
0,5 1 2	1500 3000 6000	HFD 6T-3IP	920,-	176	1		•	0		•		•
1	500	HCB 0.5T-3	215,-	171	1		•		•		•	
1	3000	HFA 3T-3	740,-	174	1		•				•	•
1	3000	HFD 3T-3M	860,-	176	1	0	•	0				•
1	3000	HFC 3T-3	1140,-	175	1		•				•	•
1	10000	HFM 10T1	1860,-	180	2**		•					•
1 2 5	3000 6000 12000	HFD 10T-3	990,-	176	1		•	0				•
1 2 5	3000 6000 12000	HFD 10T-3IP	1060,-	176	1		•	0		•		•
2	1000	HCB 1T-3	280,-	171	1		•		•		•	
2	5000	HFA 5T-3	820,-	174	1		•				•	•
2	5000	HFC 5T-3	1220,-	175	1		•				•	•
2	6000	HFD 6T-3M	1050,-	176	1	0	•	0				•
5	10000	HFA 10T-3	1290,-	174	1		•				•	0
•												
5	10000	HFC 10T-3	1690,-	175	1		•				•	•

^{**} Shipment via freight forwarder. Please ask for dimensions, gross weight, shipping costs • Standard • Option









The classic among manual hanging scales - perfect for rapid weighing of higher loads

Features

- 🔟 With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/Breakage resistance) and EN 61010-1 (Electrical safety)
- · Ideal for rapid control in goods-in and goods-out
- · Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- · Hold function: For easy reading of the weighing result, the display can be "frozen" in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- Peak load display (peak hold)
- · Hook made of steel

Technical data

- · LCD display, digit height 11 mm
- 2 Tape measure, extractable, length approx. 100 cm
- Ready for use: Batteries included, 9 V block, operating time up to 20 h
- · Weighing units: kg, lb, N
- Overall dimensions W×D×H 90×30×283 mm
- Net weight approx. 0,35 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

• 3 Tare pan with pan beam, Max. load 30 kg, details see *Accessories*, KERN CH-A01N, € 88,-















Model	Weighing capacity	Readability	Price excl. of VAT	Options DAkkS Calibr. Cei	rtificate
KERN	[Max] kg	[d] g	ex works €	DAkkS KERN	€
CH 15K20	15	20	75,-	963-128H	118,-
CH 50K50	50	50	80,-	963-128H	118,-
CH 50K100	50	100	70	963-128H	118







User-friendly hanging scale for rapid, mobile weighing

Features

- 🔳 With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/Breakage resistance) and EN 61010-1 (Electrical safety)
- · HDB-XL: High-capacity XL-version. The larger design creates space for a large handle, which enables even better handling especially with heavier loads
- · Ideal for rapid control in goods-in and goods-out
- · Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- Hold function: For easy reading of the weighing result, the display can be "frozen" in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- Hook, steel, included with the delivery. Can be hinged on HDB-N models
- Peak load display (peak hold)

Technical data

- · LCD display, digit height 12 mm
- Ready for use: Batteries included, 2×1.5 V AAA, operating time up to 180 h
- Weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

Accessories

• 2 Tare pan with pan beam, Max. load 30 kg, details see *Accessories*, KERN CH-A01N, € 88,-















Model	Weighing capacity	Readability	Dimensions	Net weight	Price excl. of VAT	Options DAkkS Calibr. Certificate		
KERN	[Max] kg	[d] g	W×D×H mm	approx. kg	ex works €	DAKKS KERN	€	
HDB 5K5N	5	5	72×25×188	0,20	65,-	963-127H	98,-	
HDB 10K10N	10	10	72×25×188	0,20	65,-	963-128H	118,-	
			High-capacity XL-version		•			
HDB 6K-3XL	6	5	101×25×203	0,25	85,-	963-128H	118,-	
HDB 10K-2XL	15	10	101×25×203	0,25	85,-	963-128H	118,-	
HDB 30K-2XL	30	20	101×25×211	0,25	85,-	963-128H	118,-	















Handy hanging scale for higher loads

Features

- With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/Breakage resistance) and EN 61010-1 (Electrical safety)
- · Ideal for rapid control in goods-in and goods-out
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- Hold function: For easy reading of the weighing result, the display can be "frozen" in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- Peak load display (peak hold), Measuring frequency 5 Hz
- [Max] ≤ 200 kg: Snap link (stainless steel) with safety catch and hook (stainless steel) as standard, see larger picture

 2 [Max] ≥ 500 kg: Reinforced version for heavy loads. Snap link and hook not included, see Accessories

Technical data

- LCD display, digit height 12 mm
- Hole diameter of load support, model with [Max] ≤ 200 kg: approx. 14 mm [Max] ≥ 500 kg: approx. 16 mm
- Weighing units: kg, lb, N
- Ready for use: Batteries included, 3×1.5 V AA, operating time up to 300 h
- Permissible ambient temperature 5 $^{\circ}\text{C}/35~^{\circ}\text{C}$

Accessories

Suitable for all models

- In Hook with safety catch, galvanised and laquered cast steel, not rotatable, scope of delivery: 2 shackles, 1 connecting link, 1 hook, KERN YHA-06, € 140,-
- High-strength shackle, hot-dipped galvanised cast steel bracket, curved edge. Scope of delivery:
 2 shackles, KERN YSC-04, € 60,-

Suitable for all models with [Max] \leq 200 kg

- Snap link (stainless steel) with safety catch, opening approx. 13 mm, KERN HCB-A01, € 35,-
- Hook (stainless steel), opening approx. 29 mm,
 KERN HCB-A02, € 35,-

Suitable for model HCB 20K10

• **5** Tare pan with pan beam, Max. load 30 kg, details see *Accessories*, KERN CH-A01N, € 88,-

STANDARD













Model	Weighing capacity	Readability	Dimensions housing	Net weight	Price excl. of VAT	Options DAkkS Calibr. Certificate		
KERN	[Max] kg	[d] g	W×D×H mm	approx. kg	ex works €	DAkkS KERN	€	
HCB 20K10	20	10	82×43×153	0,30	120,-	963-128H	118,-	
HCB 50K20	50	20	82×43×153	0,30	130,-	963-128H	118,-	
HCB 50K100	50	100	82×43×153	0,30	100,-	963-128H	118,-	
HCB 99K50	99	50	82×43×153	0,30	110,-	963-129H	138,-	
HCB 100K200	100	200	82×43×153	0,30	110,-	963-129H	138,-	
HCB 200K100	200	100	82×43×153	0,30	130,-	963-129H	138,-	
HCB 200K500	200	500	82×43×153	0,30	105,-	963-129H	138,-	
HCB 0.5T-3	500	1000	82×43×153	0,40	215,-	963-130H	245,-	
HCB 1T-3	1000	2000	82×48×153	0,60	280,-	963-130H	245,-	







Robust, compact hanging scale with high level of protection against dust and water spray

Features

- 🔟 With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/Breakage resistance) and EN 61010-1 (Electrical safety)
- 2 Housing stainless steel, IP65-protected against dust and water splashes
- Ideal for rapid control in goods-in and goods-out
- Also essential in the private sector to determine the weight of fish, game, fruits, bicycle parts, suitcases etc.
- Hold function: For easy reading of the weighing result, the display can be "frozen" in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key
- Peak load display (peak hold)
- Internal measuring frequency: 5 Hz
- · Snap link (stainless steel) with safety catch as standard
- · Hook (stainless steel) as standard

Technical data

- · LCD display, digit height 12 mm
- 3 Second display on the back of the balance
- Hole diameter of load support ca. 14 mm
- Ready for use: Batteries included, 2×1.5 V AA, operating time up to 200 h
- · Weighing units: kg, lb, N
- Overall dimensions W×D×H 96×48×179 mm
- Net weight approx. 0,50 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- · Snap link (stainless steel) with safety catch, opening approx. 13 mm, KERN HCB-A01, € 35,-
- · Hook (stainless steel), opening approx. 29 mm, KERN HCB-A02, € 35,-



















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Model	Weighing capacity [Max]	Readability [d]	Price excl. of VAT ex works	Options DAkkS Calibr. Certificate DAkkS		
KERN	kg	g	€	KERN	€	
HCN 50K100IP	50	100	145,-	963-128H	118,-	
HCN 100K200IP	100	200	145,-	963-129H	138,-	
HCN 200K500IP	200	500	145,-	963-129H	138,-	

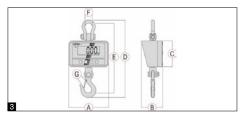












High-resolution crane scale for loads up to 300 kg

Features

- 🔳 With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/Breakage resistance) and EN 61010-1 (Electrical safety)
- · Fully-equipped crane scale for low to medium load ranges. The solid design guarantees that extra level of safety (TÜV tested). Thanks to the large LCD display and the remote control which is delivered as standard, it can also be operated safely from a distance and results can be read off
- · High mobility: Thanks to battery operation/rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department, etc.)
- · Battery level indicator, LED visual display
- · Hold function: For easy reading of the weighing result, the display can be "frozen" in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key

- Tare: Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed
- · Large high-contrasted display that is easy to read
- · Standby function: display automatically switched off after 5 min without a change of load. Automatic activation with the touch of a key
- · Hook with safety catch, revolving
- Shackle and safety catch made of nickel-plated steel
- 2 Infrared remote control standard, range up to 20 m, W×D×H 65×24×100 mm, batteries included

Technical data

- · Backlit LCD display, digit height 28 mm
- Ready for use: Batteries standard, 4×1.5 V AA, operating time approx. 100 h
- Precision: 0,2 % of [Max]
- · Weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/40 °C

Accessories

· Internal rechargeable battery pack for load receptor, operating time up to 50 h without backlight, charging time approx. 12 h. Weighing is not possible during the charging process, KERN HCD-A01, € 50,-

STANDARD

















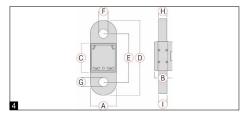
Model	Weighing capacity	Readability	Net weight approx.			3	Dimensio	ons		Price excl. of VAT	Options DAkkS Calibr. Certificate			
KERN	[Max] kg	[d] σ	kg	A	В	C	D	E	F	G	ex works €	DAkkS	, Gertinicate	
KLKIV	٨g	g	Nβ	mm	mm	mm	mm	mm	mm	mm		KERN	€	
HCD 60K-2	60	20	1,2	150	79,3	97,7	276,1	246,5	26	18	210,-	963-129H	138,-	
HCD 100K-2	150	50	1,2	150	79,3	97,7	276,1	246,5	26	18	210,-	963-129H	138,-	
HCD 300K-1	300	100	1,2	150	79,3	97,7	276,1	246,5	26	18	210,-	963-129H	138,-	
		Mul	ti-division balan	ce, with i	increasin	g or decr	easing lo	ad, it swi	tches au	tomatic	ally			
			to the next l	argest or	smallest	weighin	g range [I	Max] and	readout	[d].				
HCD 100K-2D	60 150	20 50	1,2	150	79,3	97,7	276,1	246,5	26	18	220,-	963-129H	138,-	
HCD 300K-2D	150 300	50 100	1,2	150	79,3	97,7	276,1	246,5	26	18	220,-	963-129H	138,-	











Compact crane scale with integrated display can also be used for tensile force measurement

Features

- 11 With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/Breakage resistance) and EN 61010-1 (Electrical safety)
- · With its high-quality finish, low weight and compact dimensions, this crane scale (tensile force gauge) is an essential device for industrial use, on building sites, in freight centres, ports etc.
- · Because of its compact design it is also ideally suited for installation in systems where space is limited, etc.
- · Ideally suited for determining weight quickly while loading and unloading
- · Peak load display (peak hold)
- · Hold function: For easy reading of the weighing result, the display can be "frozen" by pressing the Hold key
- Tare: Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed

Technical data

- · Large backlit LCD display, digit height 23 mm
- · Material and design of housing/load support, models with
- [Max] ≤ 3 t: aluminium/stainless steel bushing [Max] > 3 t: steel/steel
- · Rechargeable battery pack integrated, as standard, operating time up to 30 h without backlight, charging time approx. 12 h
- · Optional battery operation, 3×1.5 V AA not included in scope of delivery, operating time up to 30 h
- Precision: 0,2 % of [Max]
- Internal measuring frequency: 60 Hz
- · Weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

Accessories

- 2 High-strength shackle, hot-dipped galvanised cast steel bracket, bow shaped. Scope of delivery: 2 shackles with lacquered screw bolts, suitable for models with [Max] ≤ 5 t: KERN YSC-01, € 125,-[Max] = 10 t: KERN YSC-02, € 270,-
- In the safety catch, galvanised and lacquered cast steel, not rotatable, scope of delivery: 2 shackles, 1 connecting link, 1 hook [Max] ≤ 1 t: KERN YHA-01, € 210,-
- [Max] = 3 t: KERN YHA-02, € 230,-
- [Max] = 5 t: KERN YHA-03, € 300,-
- [Max] = 10 t: KERN YHA-04, € 560,-

















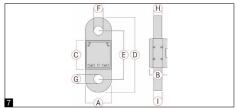
Model	Weighing capacity	Readability	Net weight		4 Dimensions								Price excl. of VAT	Options DAkkS Calibr. Certificate	
KERN	[d] kg	[d] g	approx. kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	l mm	ex works €	DAKKS Calibr. Co DAKKS KERN	ertificate €
HFA 600K-1	600	200	1,8	90	62	100	255	165	32	32	30	30	680,-	963-130H	245,-
HFA 1T-4	1000	500	1,8	90	62	100	255	165	32	32	30	30	680,-	963-130H	245,-
HFA 3T-3	3000	1000	2,0	90	62	100	255	165	32	32	30	30	740,-	963-132H	620,-
HFA 5T-3	5000	2000	4,0	90	62	100	255	165	30	30	30	30	820,-	963-132H	620,-
HFA 10T-3	10000	5000	6	90	72	100	275	185	40	40	40	40	1290,-	963-133H	870,-











Compact crane scale for use in harsh environmental conditions or where space is limited, with convenient hand-held terminal

Features

- With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/Breakage resistance) and EN 61010-1 (Electrical safety)
- With its high-quality finish, low weight and compact dimensions, this crane scale (tensile force gauge) is an essential device for industrial use, on building sites, in freight centres, ports etc.
- Because of its compact design it is also ideally suited for installation in systems where space is limited, etc.
- Peak load display (peak hold)
- Hold function: For easy reading of the weighing result, the display can be "frozen" by pressing the Hold key
- Tare: Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed
- Display device with integrated radio module, which the user can carry around with him, thanks to the convenient hand strap, standard. In this way the weighing data can always be read off the

display device by the user, even when the user is a long way from the load receptor (force gauge) or under poor lighting conditions. Range up to 20 m. All functions can be selected

Technical data

 Material and design of housing/load support, models with

 $[Max] \le 3$ t: aluminium/stainless steel bushing [Max] > 3 t: steel/steel

- Precision: 0,2 % of [Max]
- Internal measuring frequency: 10 Hz
- · Weighing units: kg, lb, N
- Permissible ambient temperature 5 °C/35 °C

Display device

- Large backlit LCD display, digit height 23 mm
- Rechargeable battery pack integrated, as standard, operating time up to 30 h without backlight, charging time approx. 12 h
- Dimensions of display device W×D×H 88×64×256 mm

Load receptor

- Internal rechargeable battery pack included with the delievery, Operating time up to 35 h without backlight, charging time approx. 8 h
- Optional battery operation, 3×1.5 V AA not included in scope of delivery, operating time up to 40 h

Accessories

- High-strength shackle, hot-dipped galvanised cast steel bracket, bow shaped.
 Scope of delivery: 2 shackles with lacquered screw bolts, suitable for models with
 [Max] ≤ 5 t: KERN YSC-01, € 125, [Max] = 10 t: KERN YSC-02, € 270,-
- In Hook with safety catch, galvanised and lacquered cast steel, not rotatable, scope of delivery: 2 shackles, 1 connecting link, 1 hook
 [Max] ≤ 1 t: KERN YHA-01, € 210,-

[Max] = 3 t: KERN YHA-02, € 230,-

[Max] = 5 t: KERN YHA-03, € 300,-

[Max] = 10 t: KERN YHA-04, € 560,-

NDARD								OPTION
	L⊞A	\mathcal{Z}			<u> </u>	\square		DAkkS
EXT	SUM	UNIT	BATT	ACCU	MULTI	DMS	1 DAY	+3 DAYS
			4	2 3				

Model	Weighing capacity	Readability	Net weight		Dimensions								Price excl. of VAT	Options	
KERN	[d] kg	[d] g	approx. kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	l mm	ex works €	DAkkS Calibr. Ce DAkkS KERN	ertificate €
HFC 600K-1	600	200	1,8	90	62	100	255	165	32	32	30	30	1070,-	963-130H	245,-
HFC 1T-4	1000	500	1,8	90	62	100	255	165	32	32	30	30	1070,-	963-130H	245,-
HFC 3T-3	3000	1000	2,2	90	62	100	255	165	32	32	30	30	1140,-	963-132H	620,-
HFC 5T-3	5000	2000	4,0	90	62	100	255	165	30	30	30	30	1220,-	963-132H	620,-
HFC 10T-3	10000	5000	6	90	72	100	275	185	40	40	40	40	1690,-	963-133H	870,-



Robust, high-resolution crane scale up to 12 t, also with optional verification or protection type IP67



High mobility: thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department, etc.)



Solid shackles, non-revolving



Radio remote control standard. Range up to 20 m. All functions can be selected (excl. ON/OFF). W \times D \times H 65 \times 24 \times 100 mm. Batteries included, 1 \times 12V, 23A



Features

- With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/Breakage resistance) and EN 61010-1 (Electrical safety)
- Because of its stable construction and robust design, it is ideal for continuous use in industrial environment
- Tare: Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed



KERN HFD/HFD-IP

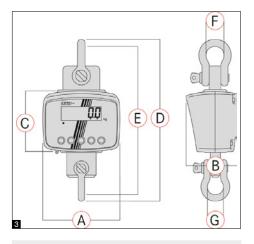
 Hold function: the weight display is "frozen" when the Hold button is pressed

KERN HFD-IP

 The models with IP add-on have special spray and dust protection to IP67 and because of this they are ideal for use in harsh environments

KERN HFD-M

- The models with M add-on can be verified optionally and because of this they are ideal for use in verified applications such as, for example, calculation of a total price, based on weight
- Will support you when weighing freight in a SOLAS compliant manner
- Sleep function: when the sleep button is pressed, the weight display is switched off, but the value remains stored. This can extend the battery life



Technical data

- Superior display size: digit height 30 mm, bright backlight for easy reading of weighing results, even in poor lighting conditions
- Rechargeable battery pack integrated, as standard, operating time up to 70 h without backlight, charging time approx. 12 h. Battery pack accessible from the outside, which means it is easy to replace
- Precision: 0,2 % of [Max]
- · Weighing units: kg
- Permissible ambient temperature $-10~^{\circ}\text{C}/40~^{\circ}\text{C}$

Accessories

- Charging station for external battery charging, scope of delivery: charging station, exchangeable battery, mains adapter, KERN HFD-A07, € 120,-
- Hook with safety catch, cast steel, galvanised and lacquered, non-revolving, suitable for models
 [Max] ≤ 1t: KERN HFD-A01, € 50,-

[Max] = 3t: KERN HFD-A02, € 70,-

[Max] = 31: KERN HFD-AU2, € 70,-

[Max] ≥ 6t: KERN HFD-A03, **€ 130,-**

 Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase, KERN HFD-A06, € 255,-

STANDARD)					
T I	L∎ A	444		A ##		
CAL EXT	SUM	IP 67	ACCU	MULTI	DMS	1 DAY
	HFD/ HFD-IP	HFD-IP				





HFD-IP														
Model	Weighing capacity	Readability	Net		3 Dimensions				Price	Options				
			weight						excl. of VAT	Verifica	ation	DAkkS Calibr. Certificate		
	[Max]	[d]	ca.	Α	В	С	D	Ε	F = G	ex works	MIII		DAkkS	
KERN	kg	g	kg	mm	mm	mm	mm	mm	mm	€	KERN	€	KERN	€
	Multi-range bala	nce, with increasing l	oad it sw	itches	autom	atically	to the	next I	argest v	weighing range	[Max] an	d reado	ut [d]	,
		and when the loa	ad is fully	remov	ed, the	e balan	ce swit	ches l	oack to	the lower rang	ge			
HFD 600K-1	150 300 600	50 100 200	9	194	129	160	422	384	50,8	480,-	-	-	963-130H	245,-
HFD 1T-4	300 600 1500	100 200 500	9	194	129	160	422	384	50,8	490,-	-	-	963-130H	245,-
HFD 3T-3	600 1500 3000	200 500 1000	10	194	129	160	457	413	58	670,-	-	-	963-132H	620,-
HFD 6T-3	1500 3000 6000	500 1000 2000	15	194	129	160	518	467	68,3	850,-	-	-	963-132H	620,-
HFD 10T-3	3000 6000 12000	1000 2000 5000	22	194	129	160	584	521	82,5	990,-	-	-	963-133H	870,-
			Protectio	n agair	nst dus	st and v	water s	plashe	s IP67					
HFD 600K-1IP	150 300 600	50 100 200	9	194	129	160	422	384	50,8	590,-	-	-	963-130H	245,-
HFD 1T-4IP	300 600 1500	100 200 500	9	194	129	160	422	384	50,8	590,-	-	_	963-130H	245,-
HFD 3T-3IP	600 1500 3000	200 500 1000	10	194	129	160	457	413	58	740,-	-	-	963-132H	620,-
HFD 6T-3IP	1500 3000 6000	500 1000 2000	15	194	129	160	518	467	68,3	920,-	-	_	963-132H	620,-
HFD 10T-3IP	3000 6000 12000	1000 2000 5000	22	194	129	160	584	521	82,5	1060,-	-	-	963-133H	870,-

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order.

The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.

				,									
HFD 600K-1M	600	200	9	194	129	160	422	384	50,8	660,-	965-130H 150,-	963-130H	245,-
HFD 1T-4M	1500	500	9	194	129	160	422	384	50,8	650,-	965-130H 150,-	963-130H	245,-
HFD 3T-3M	3000	1000	10	194	129	160	457	413	58	860,-	965-132H 235,-	963-132H	620,-
HFD 6T-3M	6000	2000	15	194	129	160	518	467	68,3	1050,-	965-132H 235,-	963-132H	620,-
HFD 10T-3M	12000	5000	20	194	129	160	584	521	82,5	1200,-	965-133H 355,-	963-133H	870,-



As we have done in recent years we will continue to expand our range of products and services thanks to our knowledgeable colleagues. Our workforce has already more than doubled. In addition to our headquarters in Balingen, we will be opening a second site in Southern Germany with a high-bay warehouse. International customers will also be supported by several European branches.

Even more accurate, more compact and more flexible

Thanks to technological advances, our balances and measuring devices achieve ever higher resolution and measuring accuracy. Many of them have also become more compact and can be used in a flexible way in different environments. Networking has long since become reality and is an essential feature for the future. Measuring and weighing systems communicate with each other and exchange data in real time with other systems, such as ERP systems. In this way they make a contribution to controlling processes automatically and highly efficiently, as well as being able to detect errors long before the costs explode. At the same time, staff shortages do not pose a problem either.



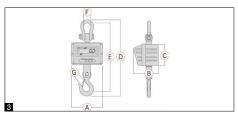
The developments outlined here are already coming through. Our plans for a new company site have gone way beyond a mere vision. This also applies to technological development. Come and be amazed by KERN.

Our story started over 180 years ago and it continues to move forward. Go back to page 6/7 to find out more about our history and read more about today's generation of KERN on page 82/83.









Robust industrial crane scale with bright LED display for optimum reading in unfavourable ambient conditions

Features

- With the TÜV certification mark, the scales meet the requirements of the standard EN 13155 (Non-fixed load lifting attachments/Breakage resistance) and EN 61010-1 (Electrical safety)
- Professional device for robust applications in production, quality control, logistics etc. Because of its stable construction and robust design, it is ideal for continuous use in industrial environment
- High mobility: thanks to rechargeable battery operation, compact, lightweight construction, it is suitable for the use in several locations (production, warehouse, dispatch department, etc.)
- Adaptation of the readout to unstable environmental conditions at the push of a button (you can select between 3 levels)
- Hold function: For easy reading of the weighing result, the display can be "frozen" by pressing the Hold key

- Tare: Resets the display to "0" when there is a load on the scale. Now removed or added loads are directly displayed
- · Hook with safety catch, revolving
- Radio remote control standard. Range up to 20 m. All functions can be selected (excl. ON/OFF). W×D×H 48×10×95 mm.
 Batteries included, 12 V, Typ 23A

Technical data

- Superior display size: Digit height 30 mm, for easy reading of weighing results
- Internal rechargeable battery pack included with the delievery, operating time up to 50 h, charging time approx. 14 h
- Precision: 0,2 % of [Max]
- Weighing units: kg
- Permissible ambient temperature 0 °C/40 °C

DMS 1 DAY 2 DAYS



Model	Weighing capacity	Readability	Net weight	Dimensions							Price excl. of VAT	Options	
KERN	[Max] kg	[d] g	ca. kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	ex works €	DAkkS Calibr. Ce DAkkS KERN	ertificate €
HFM 1T0.1	1000	100	14	270	200	175	610	540	68	40	1010,-	963-130H	245,-
HFM 3T0.5	3000	500	16	270	200	175	610	540	74	40	1040,-	963-132H	620,-
HFM 5T0.5	5000	500	18	300	230	190	730	650	74	55	1400,-	963-132H	620,-
HFM 10T1	10000	1000	34	300	230	190	840	750	92	60	1860,-	963-133H	870,-

ACCESSORIES, SOFTWARE

In our large selection of accessories you will discover everything you need to complement your KERN devices in the best way and make your workflows even more efficient.

As well as high-quality printers, interface cables and numerous adapters, you will also find different software solutions and many other products which will guarantee stable performance.

Visit our webshop as well to see the complete range of accessories and get detailed information about each product.

Printers



Matrix Needle Printer KERN 911-013

For printing weighing results on normal paper, which is ideal for long-term archiving.



Matrix Needle Printer KERN YKN-01

For printing weighing results on normal paper, which is ideal for long-term archiving.

Technical data

- · Needle print
- Speed: 1,8 line/s
- Max. 40 characters per line
- · Width of the paper strip: 57 mm wide
- Operation via mains adapter 230 V/50 Hz (standard EU), as standard
- Dimensions housing:
 W×D×H 100×180×106 mm
- Not suitable for KERN PNS/PNJ, PES/PEJ ranges
- Interface cable not included with delivery, see Page 185

Price printer without interface cable, KERN 911-013, € 480,-

Accessories

- Paper rolls (10 pcs.), KERN 911-013-010, € 40,-
- Universal mains adapter, standard EU/GB/US, KERN ABS-A01, € 85,-

Technical data

- · Needle print
- Speed: 1 line/s
- Max. 16 characters per line
- · Width of the paper strip: 44 mm wide
- Operation via mains adapter 230 V/50 Hz (standard EU/GB/US), as standard
- Dimensions housing:
 W×D×H 158×106×40 mm
- Interface cable not included with delivery, see Page 185

Price printer without interface cable, KERN YKN-01, € 310,-

Accessories

• Paper rolls (5 pcs.), KERN YKN-A01, € 38,-

STANDARD



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Important note for printer orders:

Please state your balance model when ordering, so that the printer can be preconfigured in the factory to suit your balance.

Individual header data:

For printers **KERN 911-013**, **YKN-01** and **YKE-01** the free software **KERN SHM-01** (see www.kern-sohn.com) can be used to print 4 header lines on the printout (see marking on balance). Compatible models: KERN 440, DE, FCB, PCD.





Thermal Label Printer KERN YKE-011

Affordable universal label printer to print out weighing results on thermal labels. ASCII-capable. Comfortable Auto-Forward function for automatic jump from label to label (only with KERN standard labels).

Technical data

- Thermal print
- · Speed: 22 mm/s
- Max. 82 characters per line
- · Width of the paper strip: YKE-A02: 78 mm

YKE-A03: 112 mm

- Operation via mains adapter 230 V/50 Hz (standard EU/GB/US), as standard
- · Dimensions housing: W×D×H 150×155×65 mm
- · Interface cable not included with delivery, see Page 185
- · Note: Please order the matching label roll with it, see Accessories
- · Not suitable for KERN BFS, CCS, CFS, DAB, DBS, DLB, IFS, KFS-TM, RPB ranges, counting scales

Price printer without interface cable, KERN YKE-01, € 790,-

Accessories

· Paper roll (1 pc.), dimensions labels: W×D 73×61 mm, 100 labels, KERN YKE-A02, € 32,-W×D 105×48 mm, 45 labels, KERN YKE-A03, € 32,-



Tip

EasyTouch Individual Print

The print product (e.g. labels) can be individually designed. The size of the print area as well as the placement of the print elements can be customized. The barcode function enables the printing of each element as a barcode or QR code.

For further details, see EasyTouch



Example printouts with ET Individual Print

■ ONLY WHILE STOCKS LAST









Important note for printer orders:

Please state your balance model when ordering, so that the printer can be preconfigured in the factory to suit your balance.

Individual header data:

For printers KERN 911-013, YKN-01 and YKE-01 the free software KERN SHM-01 (see www.kern-sohn.com) can be used to print 4 header lines on the printout (see marking on balance). Compatible models: KERN 440, DE, FCB, PCD.



Dot Matrix Printer KERN YKG-01

High-quality dot matrix printer

Flexible and rapid dot matrix printer for retail, the catering trade and for restaurant kitchens.

To print the weights on normal paper, which is ideal for long-term archiving. This model has an interchangeable interface and you will be impressed by how easy it is to replace the paper and ribbon

Technical data

- · Needle print
- · Speed: 4,7 line/s
- Max. 42 characters per line
- Supported paper widths:
 58 mm, 70 mm, 76 mm (roll)
- Operation via mains adapter 230 V/50 Hz standard EU, as standard
- Interfaces: RS-232, cash drawer connection, bidirectional parallel
- Interface cable not included with delivery, see Page 185
- Dimensions housing B×T×H 160×248×139 mm
- Not suitable for KERN DAB, DBS, DLB, FKT, RFE ranges

Price printer without interface cable, KERN YKG-01, € **590,-**

Accessories

- Paper rolls (5 pcs.), KERN YKG-A01, € 30,-



Thermal Printer KERN YKH-01

High-quality thermal printer – fast, robust, user-friendly

Robust, low-maintenance thermal printer for retail, the catering trade and for restaurant kitchens. Extremely compact and long-lasting. Thanks to the waterproof switch cover it is particularly suitable for use under tough, loud environmental conditions

Technical data

- · Thermal print
- · Speed: 2 line/s
- Max 64 characters per line
- Supported paper widths:
 58 mm, 80 mm (roll)
- Operation via mains adapter 230 V/50 Hz standard EU, as standard
- Interfaces: RS-232
- Interface cable not included with delivery, see Page 185
- Dimensions housing B×T×H 140×199×146 mm
- Not suitable for KERN DAB, DBS, DLB, FKT, RFE ranges

Price printer without interface cable, KERN YKH-01, € 420,-

Accessories

- Paper rolls (5 pcs.), KERN YKH-A01, € 30,-

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STANDARD



Important note for printer orders:

Please state your balance model when ordering, so that the printer can be preconfigured in the factory to suit your balance.

Individual header data:

For printers **KERN 911-013, YKN-01 and YKE-01** the free software **KERN SHM-01** (see www.kern-sohn.com) can be used to print 4 header lines on the printout (see marking on balance). Compatible models: KERN 440, DE, FCB, PCD.

Interface Cable for RS-232

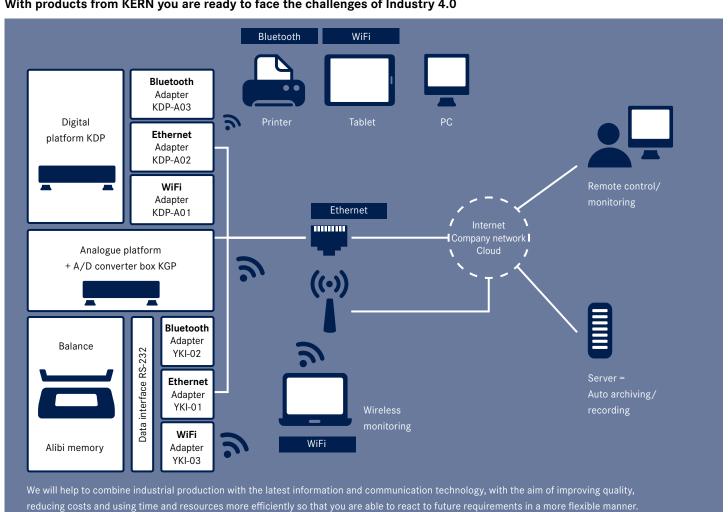
For direct connection to a printer or PC, cable length approx. 1.5 m. The interface parameters can be set using the balance keypad.



The interface cable is free of charge if you purchase balance, printer or Ethernet-/WiFi-/Bluetooth adapter together.

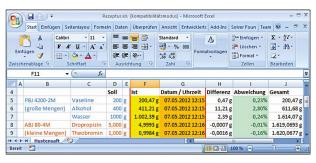
Printer,	PC, YKI-01,	911-013, YKN-01	YKE-01	YKG-01, YKH-01	Price cable excl. of VAT		
Balance	▼	-02, -03 KERN	KERN	KERN	KERN	ex works €	
440, 572, 573, ALJ, ALS, ALT-B, DE-D, EMB-V, FKA, FKB, FKC, IKT, KB, PCB, PCD, PLJ, PLS, KDP	CDS, CKE, FCB, DS, FKB-A, (until year of construction 2022)		572-926				
BKN, BXS, IXS, KXS-TM, SXS			KXS-A04 (I	actory Option)		109,-	
EOC, IOC, BID, KIB-T, KIB-TM, UID		EC	C-A12		50,-		
YKV-01, KGP		572-926		-		50,-	
ABJ-NM, ABS-N			AC	S-A01		115,-	
BFA, BFB, BFN GAB-N, GAB-P, IFB, KFB-TM, KFN-TM, NFB, NFN (until year of construction 2019)		CI	S-A01				
BFS, CPB, EWJ, KFS-TM, PFB, PFB-M			CI	S-A01			
CFS, CCS, KFS-TM, IFS (from year of production	n 2015)	-	CFS-A01	-	-		
ABT-NM, PBJ, PBS			77	0-926			
DBS, DLB		572	2-926	-	-		
DAB		MLI	3-A05	MLB-A05	_	50,-	
ABP, KFS-T			M	_B-A05			
ADB, ADJ, ACS, ACJ, PNS/PNJ			M	_B-A05			
HFT			KI	F-A01			
EG-N, EW-N		43	4-926				
PES/PEJ (Interface cable for printer YKB-01: M							
CCA			A-A01				
RFE, RPB (not compatible with YKN-01)	-	CFS-A01	-	CFS-A01			
FES/FEJ, PWS			MLB-A0	5 (PWS-A02)		50,- (390,-)	

With products from KERN you are ready to face the challenges of Industry 4.0



You will benefit from our uniform data protocol combined with our BalanceConnection 4.0 data software, for details please see page 186/187.

KERN Software BalanceConnection SCD-4.0



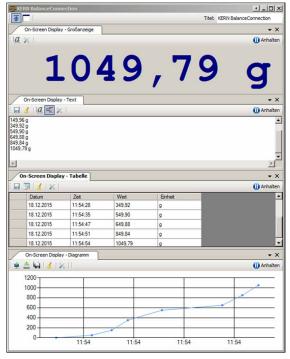
Easy transfer and editing of measuring results e.g. in Microsoft® Excel



Full overview of devices, outputs, queries, interfaces, etc. shown on the output window immediately.



Measurement report with line chart showing a moisture analysis



Different on-screen displays with export function

Tip

Do you have any questions? The team from our Industry 4.0 centre of expertise will be happy to help: e-mail: ITsupport@kern-sohn.com Or download a free demo version of the BalanceConnection software: http://balanceconnection.kern-sohn.com/demo

Flexible recording or transfer of measurements, particularly to Microsoft® Excel or Access

Features

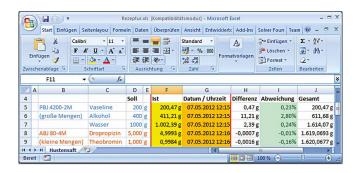
- For operating systems Windows XP, Vista, 7, 8, 8.1, 10, 11
- Supports balances measuring devices with RS 232, RS 485, Bluetooth, LAN or WiFi network (TCP/UDP/IP)
- Highly flexible formatting of the output (any order, formatting and rounding), particularly recording of date and time for every value transferred, if required
- Any number of devices/interfaces can be connected, as well as simultaneous and synchronised recording of several balances
- Key-activated or time-controlled interrogation of measurements or trigger of device functions, also for continuous recording
- The interface protocols for KERN balances are already predefined (standard configuration)
- Compatible interface cable included when you order a KERN balance at the same time

- Many different transfer and recording options:
 - Microsoft® Excel/Access/Word in the foreground or background
 - Other Windows applications (through key simulation), e.g. shipping software or ERP system (SAP, Sage, etc.)
- File recording (e.g. as text or CSV file)
- Print out on text or label printer
- Screen output such as large display, line chart (drying curve for moisture analyser), histogram, etc.

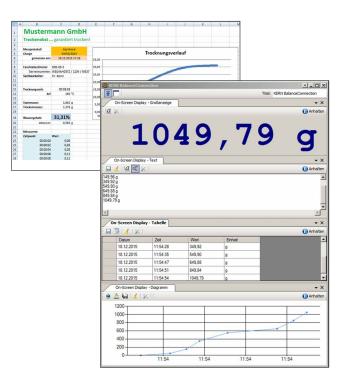
Benefits

- Typing errors during e.g. manual transfer are avoided
- · Automatic recording, e.g. for long-term tests
- · Supports GLP-compliant processes
- Can be used across different branches and applications
- Also available as a cost-optimised package with
 5 licenses, you save more than 30%!
- · Also available immediately as a download license
- Scope of supplies: 1 CD, 1 license,
 KERN SCD-4.0, € 210,-
- Scope of supplies: 1 CD, 5 licenses,
 KERN SCD-4.0S05, € 960,-
- Scope of supplies: Download link for 1 license, KERN SCD-4.0-DL, € 210,-

KERN Software BalanceConnection SCD-4.0 Pro







Professional and highly flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access

Features

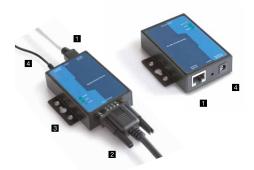
- For operating systems Windows XP, Vista, 7, 8, 8.1, 10, 11
- Supports balances measuring devices with RS 232, RS 485, Bluetooth, LAN or WiFi network (TCP/UDP/IP)
- Highly flexible formatting of the output (any order, formatting and rounding), particularly recording of date and time for every value transferred, if required
- Any number of devices/interfaces can be connected, as well as simultaneous and synchronised recording of several balances
- Key-activated or time-controlled interrogation of measurements or trigger of device functions, also for continuous recording
- The interface protocols for KERN balances are already predefined (standard configuration)
- Compatible interface cable included when you order a KERN balance at the same time
- Many different transfer and recording options:
- Microsoft® Excel/Access/Word in the foreground or background
- Other Windows applications (through key simulation), e.g. shipping software or ERP system (SAP, Sage, etc.)
- File recording (e.g. as text or CSV file)
- Print out on text or label printer
- Screen output such as large display, line chart (drying curve for moisture analyser), histogram, etc.

Additional features of the BalanceConnection PRO version:

- ODBC/SQL databases such as SQL Server or MySQL
- Transfer to HTTP Webservices/Web forms
- Histogram
- Enables the connection of medical balances to practice EDP systems using the device data transfer protocol (GDT) and also the HL7 protocol
- Implementation of programs/scrips using freely-definable command lines
- · Command sequences
- Defining the conditions for specific events and the reaction to these events
- Filter for stability recognition (configurable value storage)
- Central configuration repository, e.g. on the network
- On-screen displays with configurable user interface for flexible balance operation

Benefits

- Ideal software where weighing data which has been collected needs to be transferred to a Windows PC
- Particularly suitable for professional integration of weighing systems into existing networks where there is a high demand for automated data transfer and further processing, for integration of databases
- · Automatic recording, e.g. for long-term tests
- Supports GLP-compliant processes
- Can be used across different branches and applications
- Any number of balances can be used on one PC/workstation per licence
- Also available as a cost-optimised package with 5 licenses, you save more than 30 %!
- · Also available immediately as a download license
- Scope of supplies:
 1 CD, 1 License
 KERN SCD-4.0-PRO, € 380,-
- Scope of supplies:
 1 CD, 5 Licenses
 KERN SCD-4.0-PROS05, € 1460,-
- Scope of supplies: Download link for
 1 License, KERN SCD-4.0-PRO-DL, € 380,-



RS-232/Ethernet Adapter **KERN YKI-01**

Technical data

Adapter to connect balances, force measuring devices etc. with an RS-232 interface 2 to an IP-based Ethernet network 11. The adapter allows direct integration of measuring devices into most company networks, with automatic configuration using DHCP or statistical IP allocation. You can access the current measuring data at any time from within the whole network, without having to use additional cables. The adapter supports a wide range of configurational options using the enclosed administration software or by the web interface. The driver delivered with the goods allows you to access the measuring device with existing, nonnetwork-compatible applications using a virtual COM port. Compatible with KERN BalanceConnection software. DIN track mount 3 or free-standing. Scope of delivery: RS-232 Ethernet adapter with 1x Port RS-232 11, mains adapter 4, CD (driver, software, operating instructions), adhesive feet, (interface cable see Page 185),

KERN YKI-01, € 380,-



RS-232/Bluetooth Adapter **KERN YKI-02**

Technical data

Adapter for the wireless connection of balances, force measuring devices etc. with an RS-232 interface to Bluetooth devices, such as Bluetooth printers, tablets, laptops, Smartphones etc. In this way, where there is a physical separation or a large distance between the devices, the weighing data from one or several balances can be easily sent without cable and printed on a Bluetooth printer or transferred to a Bluetooth device (you would need the relevant software on the Bluetooth device, not included with the delivery). The compact adapter with its attractive design can usually be connected directly to the balance **1**, e.g. an additional interface cable would not be necessary. Bluetooth adapter will be powered by the balance (if compatible) or with the mains adapter which is supplied as standard 2. Range up to 100 m outside, depending on obstacles, such as, walls, the sensitivity and type of antenna of the receiver. Intersections of sending and receiving lines using the DCE/DTE switch 3. Compatible with KERN Software BalanceConnection.

Scope of delivery: RS-232/Bluetooth adapter, mains adapter (EU/GB/US/AUS/CH) 2, USB-A to Mini-USB-B cable 4, gender changer 5, driver CD, (interface cable see Page 185),

KERN YKI-02, € 380,-

STANDARD









To connect to your network, you will need information from your network administrator. We recommend discussing connecting your device into your network with the administrator before you place your order.

If you order a KERN balance at the same time, then the interface cable is free of charge (please specify balance model).

Note:

Note:







Large Display KERN YKD-A02

Technical data

With superior display size, digit height 3" (76 mm). Luminescent, red LED display for easy reading of weight, even from a distance or under poor lighting conditions. 6 segments, mains connection as standard (230 V, EU/GB), connection using RS-232 data interface, dimensions W×D×H 541×55×180 mm.

Suitable for series IFB, BFB, NFB, UFA, UFB,

KERN YKD-A02, € 310,-

Signal Lamp KERN CFS-A03

Technical data

Signal lamp for visual support of weighing with tolerance range. Three-colour LED, red, green, yellow. Power supply via balance using RS-232. Total dimensions W×D×H 100×180×300 mm

Suitable for series BFB, BFN, BID, CDS, CKE, CPB-N, DS, FCB, FKB, GAB-N, IFB, IFS, IFC, IOC, IXC, KFB-TM, KFN-TM, KIB-TM, NFB, NFN, PCB, SFB, SXC, UFA, UFB, UFC, UFN, 572

KERN CFS-A03, € 310,-

Power Supply Adapter Set KERN YKA-02

Technical data

From standard EU to GB/US/AUS/CH etc. Four pieces. Ideal for devices with Class II protection (not earthed). Ideal for Euro moulded plug,

KERN YKA-02, € 35,-



2nd RS-232 Data Interface KERN CFS-A04

Technical data

Separate Y cable, e.g. for simultaneous connection of a a printer and a signal lamp.

Suitable for series BAN, BFB, CFS, CPB-N, GAB-N, IFB, KFB-TM, NFB, NFN, UFN, UFA, UFB, SFB,

KERN CFS-A04, € 38,-



RS-232/USB Adapter KERN AFH 122

Technical data

To connect peripheral devices with USB connection, fits on all balances and measuring instruments with RS-232 port.

Please order the appropriate RS-232 interface cable for your balance at the same time, see table on Page 185

Scope of delivery: Converter cable, CD with driver,

KERN AFH 12, € 95,-



Stand (Tripodal) KERN YKP-02

Technical data

stable and robust, to elevate display device, stainless steel, height-adjustable, large three-legged adjustable foot, height of stand approx. 750–1000 mm, Factory Option.

Suitable for series BFB, BXS, BFS, BFA, IFS, IFB, KFE-TM, KXG-TM, KXS-TM, KEN-TM, NFB, SFE, UFA, UFB,

KERN YKP-02, € 220,-



Tare Pan with Pan Beam KERN CH-A01N

Technical data

Made of stainless steel. Ideal for weighing loose small parts as well as fruit, vegetables etc. Max. load 30 kg. Removable tare pan which makes cleaning easy and hygienic.

Suitable for models KERN CH 15K20, HCB 20K10, HDB-N, HDB-XL

- Dimensions: tare pan, Ø/H 160×40 mm (dim. outside), 240×40 mm (dim. inside)
- Pan beam: W×D×H
 290×240×300 mm
 290×240×340 mm (incl. tare pan)
- Total net weight approx. 500 g

KERN CH-A01N, € 88,-



Protective Dust Cover KERN ABS-A08

Technical data

For protection from dust and light (Fig. similar).

Suitable for all KERN analytical balances and precision balances with glass draught shield,

KERN ABS-A08, € 32,-



Tare Pan KERN RFS-A02

Technical data

Made of stainless steel, which makes cleaning easy and hygienic. Ideal for weighing loose screws, small parts as well as fruit, vegetables, cheese, etc.

- W×D×H 400x300x45 mm
- · Net weight approx. 554 g

KERN RFS-A02, € 75,-



Universal Density Set KERN YDB-03

Technical data

Universal density set for precise and convenient density determination of liquids and solids ≤/≥ 1. Suitable for all current KERN analytical balances. Scope of delivery: Beaker (Ø×H 84×113 mm), thermometer, sample holder, adapter, equalising weights, volume plummet (stainless steel, 20 g), universal submersible basket for solid bodies which float and sink. The wire of the submersible basket has a diameter of 0.5 mm and therefore complies with the requirements of DIN EN ISO 1183-1 (test methods for the determination of density of non-foamed plastics), KERN YDB-03, € 380,-

Optional:

Density determination of the volume plummet, DAkkS calibration certificate with all data relating to the density and volume, KERN 962-335V, € 170,-





Ioniser to neutralise Electrostatic Charge KERN YBI-01A

Technical data

Goods to be weighed which are non-conductive, such as plastic, china, glass, etc often carry electrostatic charge. The electromagnetic field which then occurs between the goods to be weighed and the balance can cause the weighing result to be distorted by up to a gramme. Therefore, when weighing in milligrammes or even smaller increments, we recommend neutralising the electrostatic charge with the KERN AC-Korona discharge ioniser. With feet supplied with the ioniser, it can be positioned conveniently next to the balance or you can manually direct it from all sides onto a particular item to be weighed.

- · Discharge of ozone 0,05 ppm/h
- Total dimensions W×D×H
 115×100×60 mm (Adjustable foot retracted),
 115×110×80 mm (Adjustable foot folded out)
- Net weight approx. 0,31 kg
- Mains connection 100-240 V, 50/60 Hz,
 AC power supply, DC 12 V, 500 mA, output,

KERN YBI-01A, € 1000,-







Weighing Table KERN YPS-03

Technical data

The KERN YPS-03 weighing table has been constructed to absorb vibrations and oscillations, which would otherwise distort the weighing result.

The YPS-03 weighing table consists of:

- a heavy, polished granite slab (24 kg) and is positioned on absorbing rubber components and is used as a surface on which to stand the analytical balance
- a work table, the work surface of which surrounds the slab and offers many storage options.
 The sturdy powder-coated steel frame has four height-adjustable feet, which can be used to accurately level the weighing table if the floor is at all uneven
- You can work in an ergonomic way at the weighing table whether you are in a standing or seated position. The inlet on the front of the table offers enough space for you to sit down and operate the scale without touching the weighing table.
- All surfaces are hygienic and easy to clean
- Suitable for all KERN analytical balances with total dimensions ≤ W×D 300×400 mm
- Total dimensions W×D×H
 785×600×800 mm (Height adjustable)
- Dimensions granite slab, W×D×H 300×400×80 mm
- Net weight approx. 46 kg

Ready for shipping in 2 working days. Dispatch complete on pallet, simple self-assembly. Please ask for dimensions, gross weight, shipping costs,

KERN YPS-03, € 1030,-



Anti-vibration Granite Plates KERN YPS-04, -05, -06

Technical data

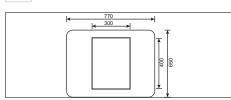
The KERN YPS-04, -05, -06 anti-vibration granite plates are designed to dampen shocks and vibrations that would otherwise distort the weighing results of high precision Laboratory Scales and analytical balances. Also ideal for vibration-free microscope set-up

- The anti-vibration granite plate is made of polished granite, which is supported on absorbent damping elements
- The anti-vibration granite plate can be used ergonomically while standing or sitting comfortably
- · Compact size, practical for small spaces
- · All surfaces are hygienic and easy to clean
- Suitable for all KERN analytical balances, precision balances and microscopes with the corresponding dimensions
- Overall dimensions, W×D×H YPS-04: 400×450×60 mm YPS-05: 565x450x60 mm YPS-06: individual dimensions, according to your requirements
- Net weight approx.
 YPS-04: 30 kg
 YPS-05: 35 kg
 YPS-06: on request

Ready for shipping in 2 working days. Dispatch complete on pallet. Please ask for dimensions, gross weight, shipping costs,

KERN YPS-04, **€ 760,**-KERN YPS-05, **€ 980,**-KERN YPS-06, on request













Roller Conveyor KERN YRO-01/ YRO-02/ YRO-03

Through the smooth-running KERN roller conveyor attachments, KERN YRO, you can convert your platform scale into a robust measuring system for rapid and flexible weight determination in conveyor applications.

Especially suitable for use in production and dispatch lines, where time means money. The goods or packages can either be weighed as they pass over the balance or, at fixed stations, heavy goods can easily be pushed onto the scale thanks to the roller conveyor and moved onto the connected roller conveyor.

- ■ Simply connect the roller conveyor attachment to a platform (e.g. KERN IFB, IFC, IFS, IXC, SXC, KBP, KFP) done!
- Robust aluminium profile frame. The modular design means that you can easily disassemble it for cleaning or to replace individual components
- Smooth-running, hot-dip galvanised steel rollers with ball bearings
- · Conductive rollers
- Suitable for use in dry environments
- Roller distance approx. 30 mm
- · Direction of movement is lengthways

- Scope of delivery: 1 roller conveyor attachment (without scale)
- We are happy to adapt the roller conveyor to your scale, adjust the preload or switch-on tolerance, etc.
 Please ask for your individual offer, your personal KERN contact person will be happy to help you

Model	Total dimensions W×D×H	Suitable for platforms with weighing plate sizes W×D	Total net weight approx.	Price excl. of VAT ex works
KERN	mm	mm	kg	€
YRO-01	405×305×130	400×300	6	830,-
YRO-02	505×405×130	500×400	9	870,-
YRO-03	655×505×130	650×500	12	1200,-



16



TEST WEIGHTS

Weights yesterday and today

For centuries now, weight pieces have been used in scales for weighing procedures. This original purpose has now almost disappeared. Today, weights are used almost exclusively for adjusting and testing = calibration of electronic balances. They are now named "test weights" as this is their contemporary purpose.

Adjustment or calibration?

► Adjusting a balance means that you are intervening in the weighing system, to make sure that the display is set to show the correct nominal value. With ► calibration on the other hand, there is no intervention, you are testing whether the display is correct and documenting any deviation.

Testing, the right way!

The internationally valid norm OIML R111:2004 classifies test weights hierarchically in accuracy classes, where E1 is the most accurate and M3 is the least accurate weight class. With KERN you get the whole test weight range in all OIML accuracy classes E1, E2, F1, F2, M1, M2, M3.

As the test weight only becomes an ► ISO 9000ff-compliant test instrument when its accuracy has been proven, we offer the appropriate ► DAkkS Calibration certificate or verification certificate (in connection with a box) for all KERN test weights. For further details see DAkkS Calibration Service.

KERN offers you the appropriate test weight package for your balance, consisting of the test weight, box and DAkkS-calibration certificate, as proof of its accuracy. The best prerequisite for a correct adjustment or checking of your scales.

► See the Glossary

Classes of accuracy of test weights E, F, M and their general relation to the types of balances.

The appropriate OIML tolerance class for the test weight is selected based on the scale's resolution. The key factor for this is the scale's increment count:

Increment count [n] = $\frac{\text{Maximum capacity [Max]}}{\text{Division value [d]}}$

- E1 Test weights for customers who require a high degree of accuracy for the most demanding applications.

 For high-resolution balances with d > 1,000,000

 Use recommended with DAkkS calibration certificate only.
- E2 Most accurate test weights for high resolution analytical balances of verification class $I \ge 100,000 e$
- F1 Test weights for analytical balances/precision balances for verification class I/II ≤ 100,000 e
- F2 Test weights for precision balances of verification class II ≤ 30,000 e
- M1 Test weights for industrial and commercial scales of verification class III \leq 10,000 e

The appropriate test weight for your new KERN balance can also be found directly in the accessories of the balance in our webshop.

KERN DAkkS delivery times & shipping type	Total weight ≤ 30 kg (gross weight, incl. packaging)	Total weight > 30 kg (gross weight, incl. packaging)
DAkkS standard service Class E2 - M3	4 DAYS	4 DAYS
DAkkS standard service Class E1, 1 mg - 500 mg and recalibration 1 g - 10 kg with a known volume	10 DAYS	10 DAYS
ClassE1, ≥ 1 g, incl. volume determination (new weights)	15 DAYS	15 DAYS
Special weights, Newton weights, heavy duty weights, weight carriers,	on *o	quant

Special weights, Newton weights, heavy duty weights, weight carriers containers for individual weight sets etc.

on request

Just lean back - we have just the right test weight for your measuring device

KERN offers you a large range of OIML test weights, which you can use at any time to quickly and reliably check your measuring instrument. From milligram weights to tonne weights, from the classic OIML design to special weights which are specifically manufactured to your specifications, we can offer you just the right test weight, and naturally the weights have the relevant DAkkS calibration certificate or factory calibration certificate.

On the following pages you will see a selection of standard test weights for OIML error limit classes E1, E2, F1, F2, M1, M2, M3. We will be happy to manufacture special (large) weights, weight containers, Newton weights or weights with special weight values for you on request. Our test weights product specialist will be happy to give you expert, comprehensive advice.

Note: In our webshop you can conveniently select test weights for your scale that have been calculated and matched to your safety requirements and intended use – with or without calibration. We will be happy to determine the minimum sample quantity according to USP Chapter <41> and recommend a KERN Safety Set especially designed for your scale.



PREMIUM+ TEST WEIGHTS

Note: Our highly-accurate OIML test weights are also available as **PREMIUM**⁺ test weights for that extra level of safety. Thanks to the most modern manufucturing technology, these test weights can also be adjusted within the specified error limit classes (= tolerances).

I.e. this means that these **PREMIUM** test weights have a significantly longer service life, thanks this guaranteed positive tolerance. This is of particular benefit with intensive use of the test weights.

For all the details on this **PREMIUM** * service please see www.kern-lab.com/premium+ or look at the weight you want in our online shop at www.kern-sohn.com

Marking - never lose track again!

With the large variety of test equipment used then it is essential that they are identified accurately. We can help you with this and mark your test weights according to your ideas by etching or with impact numbers. Whether it's letters, numbers, your logo, barcodes or something else – it's your choice. Our product specialist "Test weights" will gladly help you with any questions about this service, prices, etc.



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KERN SAFETY SETS

All the security you need!

KERN Safety Sets which have been specially developed, put together and contain the right test weights to test and monitor your balance. They each consist of a test weight for checking the sensitivity, i.e. the correct adjustment of your scale, and another lighter test weight for checking at the lower end of the weighing range, the so-called minimum sample weight. As an option, the KERN Safety Set has space for another test weight, for testing your balance at a weight which is relevant for you.

Useful accessories which have been selected to suit that particular KERN Safety Set, such as, for example, special gloves, tweezers, weight grips, brushes, etc., will assist you in handling your test weights properly. Stored in the practical protective case next to your balance, you can check and ensure the precision of your balance at any time.

Just ask our test weight product specialist, they will be happy to recommend the right KERN Safety Set for your balance. You can also find the matching KERN Safety Set for each model on the Internet at www.kern-sohn.com



Product Specialist
Test Weights
Taras Mikitisin
Tel. +49 7433 9933 - 143
mikitisin@kern-sohn.com



Our KERN weight cases at a glance:



It's your choice!

To protect your test weights we can offer you an appropriate weight case. If there are no legal or normative specifications, then you have the choice between plastic, aluminium protected or wood. The available weight cases are shown as a symbol in the test weight tables on the following pages. This way you have all the materials, versions, sizes and prices at a glance, listed in a concise way.

It's so easy to order your suitable test weight

According to your safety requirements or the specifications of your QM system, you select the test weight with the appropriate weight value and the required tolerance (see page 195/196).

We offer many test weights in different designs, giving you complete freedom to decide which test weights you want to use for your application. It goes without saying that all our test weights comply with the OIML R111:2004 directive.

To protect your high-quality test equipment, we offer you cases in various designs. From low-priced plastic weight cases to aluminium protected weight cases to classic, high-quality wooden weight cases.

A DAkkS calibration certificate

- the auditor's favourite! With
this certificate you provide the
standard-compliant proof of all
important values of your test
equipment and are on the safe
side when operating and testing
your measuring equipment.

4

1				2					3	3					4
Weight	Tol +/- mg	Individual we compact sha	0 ,	Individual w knob shape		Plastic box		Alumini	um prot	tected	Wooder	box		DAkkS c	ertificate
		KERN	€	KERN	€	KERN	€	KERN	-	€	KERN	/4/	€	KERN	€
1 g	0,03	316-01	36,-	317-01	52,-	317-020-400	4,-	317-010	-600	14,-	317-010	-100	26,-	962-331	30,-
2 g	0,04	316-02	36,-	317-02	53,-	317-020-400	4,-	317-020	-600	14,-	317-020	-100	26,-	962-332	30,-
5 g	0,05	316-03	37,-	317-03	56,-	317-030-400	4,-	317-030	-600	14,-	317-030	-100	26,-	962-333	30,-
10 g	0,06	316-04	38,-	317-04	60,-	317-040-400	4,-	317-040	-600						30,-
20 g	0,08	316-05	43,-	317-05	68,-	317-050-400									
		216-06	46,-	317-06	73	317.04									

1	2	3					4	
Weight	Knob shape in plastic case		Knob shap protected	e in aluminium case	Knob shap in wooden		DAkkS co	ertificate
	KERN	€	KERN	€	KERN		€ KERN	€
1 mg - 500 mg	338-22	143,-	338-226	183,-			962-450	110,-
1 mg - 50 g	333-024	345,-	333-026	365,-	333-02	370	,- 962-401	184,-
1 mg - 100 g	333-034	385,-	333-036	400,-	333-03	405	,- 962-402	196,-
1 mg - 200 g	333-044	450,-	333-046	465,-	333-04	470	,- 962-403	220,-
1 mg - 500 g	333-054	510,-	333-056	530,-	333-05	540		230,-
1 mg - 1 kg	333-064	630,-	333-066	650,-	332.07		405	240,-
na - 2 kg	333-074	890,-	333-076					

A balance can never be more accurate than the test weight that is used to adjust it, it all depends on its tolerance. The accuracy of the test weight should correspond to the readout [d] of the balance, or rather be more precise.

Nominal weight value is shown in adjust mode "CAL" in the balance display. Given a choice, the heaviest weight is the most suitable for accurate measurement.

Once accuracy and nominal weight value are specified, the suitable test weight is selected according to the tolerances "Tol" of the individual accuracy classes E2 – M3, see column "Tol ± mg" at the respective weight and table at page 196.

Example:

Balance with weighing range [Max] 2000 g = 2 kg and readout [d] = 0,01 g = 10 mg

- The accuracy of the required test weight is determined by readout [d]: max. tolerance ± 10 mg.
- Displayed weight size on "CAL" mode: 1000 g or 2000 g.

 The required test weight has a 2 kg weight size.
- Suitable test weights with \pm 10 mg tolerance and 2 kg weight size, can be found in accuracy class F1. KERN-No 326-12 or KERN-No 327-12, see page 203.

Exception: analytical balances (readout $[d] \le 0,1 \text{ mg}$):

E1 test weights are recommended. Depending on the safety requirements, E2 test weights with a DAkkS calibration certificate will also be sufficient.

From finely turned to polished stainless steel - the right test weight for every situation





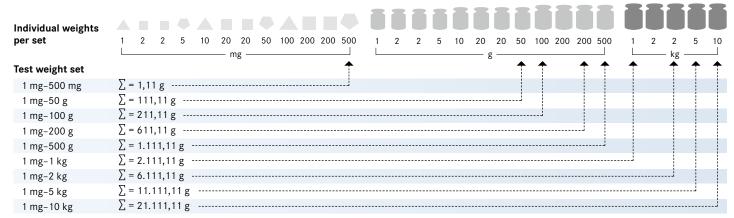






Test weight	Knob shape with lifting knob, polished	Compact shape with carrying grip, polished	Knob shape with lifting knob, polished	ECO shape, polished stainless steel	Knob shape with lifting knob, finely turned
Features	stainless steel	stainless steel	stainless steel		stainless steel
Conforms to OIML:R111	yes	yes	yes	yes	yes
Available classes	E1, E2	E2	F1	F1	F2, M1
Upper surface	polished	polished	polished	polished	finely turned
Material	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Adjusting cavity	no	no	yes	yes, from 50 g, readjustment can only be carried out by KERN	yes, from 20 g
Marking (Milligram weights, generally none)	none	none	Nominal value, etched	Nominal value, etched	F2: Class + nominal value, etched; M1: Class + nominal value, adopted
Verification possible	yes (E2)	yes	yes	no	yes (M1)
Checking equipment for verification purposes	approved (E2)	approved	approved	approved	approved (M1)
Ideal as checking equip- ment in QM systems (e.g. ISO 9000 ff)	yes	yes	yes	yes	yes
Benefits	High-quality test weight for analytical and precision balances Highly-refined surface Ideal shape of the top for good grip	Affordable test weight for analytical and precision balances Highly refined surface	Ideal, high-quality test weight for precision balances No visible adjustment chamber High long-term stability Ideal shape of the top for good grip	Affordable test weight for analytical and precision balances Highly refined surface Optimum shape of the top for good grip	Ideal test weight for commercial and indus- trial scales Ideal shape of the top for good grip

Composition table, valid for all KERN test weight sets from 1 mg



OIML (Organisation Internationale de Métrologie Légale) has established the exact metrological requirements for weights in verified applications in approx. 100 states all over the world.

The OIML guideline R111 (2004 Edition) for weights relates to sizes 1 mg - 5000 kg. Statements are made on the accuracy, materials, geometric shape, marking and storage of the weights.

Error limits for weights of classes E1 to M3

The error limit classes are in fixed hierarchical levels in the proportion of 1:3, where E1 is the most accurate and M3 is the least accurate weight class. When testing weights with other weights, the correct test class is the next highest class.

Error limit classes (= tolerances)

The values given in the table below (tolerances $\pm \dots$ mg) are the respective permitted fabrication tolerances.

They are to be equal to the

- ► measuring uncertainty of the weight, if no
- ► DAkkS calibration certificate is available.

Conventional mass

The problem is the air buoyancy, which makes the weight appear lighter. In order to avoid this "distortion" in daily use, all weights are adjusted to the unit specifications as given in R111, e.g. it is accepted that: material density of the weights is 8000 kg/m^3 , air density is 1.2 kg/m^3 and measuring temperature is $20 \, ^{\circ}\text{C}$.

KERN test weights:

Unless otherwise specified, they conform to OIML R111:2004 in every detail.

► See the Glossary

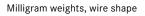
Nominal value OIML R111:2004 Maximum permissible errors for weights = permissible tolerances "Tol ± mg"

		-					
•	E1	E2	F1	F2	M 1	M2	МЗ
1 mg	± 0,003 mg	± 0,006 mg	± 0,020 mg	± 0,06 mg	± 0,20 mg	-	-
2 mg	± 0,003 mg	± 0,006 mg	± 0,020 mg	± 0,06 mg	± 0,20 mg	-	-
5 mg	± 0,003 mg	± 0,006 mg	± 0,020 mg	± 0,06 mg	± 0,20 mg	-	-
10 mg	± 0,003 mg	± 0,008 mg	± 0,025 mg	± 0,08 mg	± 0,25 mg	=	-
20 mg	± 0,003 mg	± 0,010 mg	± 0,03 mg	± 0,10 mg	± 0,3 mg	=	-
50 mg	± 0,004 mg	± 0,012 mg	± 0,04 mg	± 0,12 mg	± 0,4 mg	=	=
100 mg	± 0,005 mg	± 0,016 mg	± 0,05 mg	± 0,16 mg	± 0,5 mg	± 1,6 mg	-
200 mg	± 0,006 mg	± 0,020 mg	± 0,06 mg	± 0,20 mg	± 0,6 mg	± 2,0 mg	-
500 mg	± 0,008 mg	± 0,025 mg	± 0,08 mg	± 0,25 mg	± 0,8 mg	± 2,5 mg	-
1 g	± 0,010 mg	± 0,03 mg	± 0,10 mg	± 0,3 mg	± 1,0 mg	± 3,0 mg	± 10 mg
2 g	± 0,012 mg	± 0,04 mg	± 0,12 mg	± 0,4 mg	± 1,2 mg	± 4,0 mg	± 12 mg
5 g	± 0,016 mg	± 0,05 mg	± 0,16 mg	± 0,5 mg	± 1,6 mg	± 5,0 mg	± 16 mg
10 g	± 0,020 mg	± 0,06 mg	± 0,20 mg	± 0,6 mg	± 2,0 mg	± 6,0 mg	± 20 mg
20 g	± 0,025 mg	± 0,08 mg	± 0,25 mg	± 0,8 mg	± 2,5 mg	± 8,0 mg	± 25 mg
50 g	± 0,03 mg	± 0,10 mg	± 0,3 mg	± 1,0 mg	± 3,0 mg	± 10 mg	± 30 mg
100 g	± 0,05 mg	± 0,16 mg	± 0,5 mg	± 1,6 mg	± 5,0 mg	± 16 mg	± 50 mg
200 g	± 0,10 mg	± 0,3 mg	± 1,0 mg	± 3,0 mg	± 10 mg	± 30 mg	± 100 mg
500 g	± 0,25 mg	± 0,8 mg	± 2,5 mg	± 8,0 mg	± 25 mg	± 80 mg	± 250 mg
1 kg	± 0,5 mg	± 1,6 mg	± 5,0 mg	± 16 mg	± 50 mg	± 160 mg	± 500 mg
2 kg	± 1,0 mg	± 3,0 mg	± 10 mg	± 30 mg	± 100 mg	± 300 mg	± 1 000 mg
5 kg	± 2,5 mg	± 8,0 mg	± 25 mg	± 80 mg	± 250 mg	± 800 mg	± 2 500 mg
10 kg	± 5,0 mg	± 16 mg	± 50 mg	± 160 mg	± 500 mg	± 1 600 mg	± 5 000 mg
20 kg	± 10 mg	± 30 mg	± 100 mg	± 300 mg	± 1 000 mg	± 3 000 mg	± 10 g
50 kg	± 25 mg	± 80 mg	± 250 mg	± 800 mg	± 2 500 mg	± 8 000 mg	± 25 g
100 kg	-	± 160 mg	± 500 mg	± 1 600 mg	± 5 000 mg	± 16 g	± 50 g
200 kg	-	± 300 mg	± 1 000 mg	± 3 000 mg	± 10 g	± 30 g	± 100 g
500 kg	_	± 800 mg	± 2 500 mg	± 8 000 mg	± 25 g	± 80 g	± 250 g
1 000 kg	-	± 1 600 mg	± 5 000 mg	± 16 g	± 50 g	± 160 g	± 500 g
2 000 kg	-	-	± 10 g	± 30 g	± 100 g	± 300 g	± 1 000 g
5 000 kg	-	-	± 25 g	± 80 g	± 250 g	± 800 g	± 2 500 g

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Test Weights and Boxes Class E1







Individual weights, knob shape



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Wooden box, for milligram weights



Plastic box, lined, for individual weights ≤ 50 g



Plastic box, lined, for individual weights ≥ 100 g



Wooden box, lined, for individual weights $\leq 500 \text{ g}$



Wooden box, lined, for individual weights ≥ 1 kg



Milligram weight set in plastic case (308-42)



Milligram weight set in aluminium protected case, lined (308-426)



Plastic case, lined, for weight sets, compact shape/knob shape



仲/

Aluminium protected case, lined, for weight sets, knob shape



Wooden case, lined, for weight sets, knob shape

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, wire shape	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
		KERN €	KERN ■	KERN 🗗 €	KERN €	KERN €
1 mg	0,003	308-31 101, -	347-009-400 2, -	317-009-600 14,-	338-090-200 34,-	962-251 67,-
2 mg	0,003	308-32 101, -	347-009-400 2,-	317-009-600 14,-	338-090-200 34,-	962-252 67,-
5 mg	0,003	308-33 101, -	347-009-400 2, -	317-009-600 14,-	338-090-200 34,-	962-253 67,-
10 mg	0,003	308-34 101, -	347-009-400 2, -	317-009-600 14,-	338-090-200 34,-	962-254 67,-
20 mg	0,003	308-35 101, -	347-009-400 2, -	317-009-600 14,-	338-090-200 34,-	962-255 67,-
50 mg	0,004	308-36 101,-	347-009-400 2, -	317-009-600 14,-	338-090-200 34,-	962-256 67, -
100 mg	0,005	308-37 101, -	347-009-400 2, -	317-009-600 14,-	338-090-200 34,-	962-257 67, -
200 mg	0,006	308-38 101, -	347-009-400 2, -	317-009-600 14,-	338-090-200 34,-	962-258 67,-
500 mg	0,008	308-39 101,-	347-009-400 2, -	317-009-600 14,-	338-090-200 34,-	962-259 67,-

Class E1 · Individual weights, knob shape

Test weight material: stainless steel polished

Weight	Tol +/- mg	Individual weight knob shape	, Plastic box			Aluminium protected box		Wooden box		DAkkS certificate Initial calibration*		DAkkS certificate Recalibration	
		KERN	€ KERN	€	KERN 🗗	€	KERN 📉	€	KERN	€	KERN	€	
1 g	0,010	307-01 104	- 317-020-400 4,	80	317-010-600	14,-	317-010-100	30,-	963-231	245,-	962-231R	77,-	
2 g	0,012	307-02 111	- 317-020-400 4 ,	80	317-020-600	17,-	317-020-100	30,-	963-232	245,-	962-232 R	77,-	
5 g	0,016	307-03 119	- 317-030-400 4 ,	80	317-030-600	15,-	317-030-100	32,-	963-233	245,-	962-233 R	77,-	
10 g	0,020	307-04 128	- 317-040-400 4 ,	80	317-040-600	15,-	317-040-100	30,-	963-234	245,-	962-234 R	77,-	
20 g	0,025	307-05 135	- 317-050-400 4 ,	80	317-050-600	15,-	317-050-100	31,-	963-335	245,-	962-235 R	77,-	
50 g	0,030	307-06 155	- 317-060-400 6 ,	10	317-060-600	14,-	317-060-100	32,-	963-236	245,-	962-236 R	77,-	
100 g	0,050	307-07 200	- 317-070-400	8,-	317-070-600	14,-	317-070-100	35,-	963-237	245,-	962-237 R	77,-	
200 g	0,100	307-08 245	- 317-080-400 7 ,	70	317-080-600	14,-	317-080-100	36,-	963-238	245,-	962-238 R	77,-	
500 g	0,250	307-09 325	- 317-090-400 8 ,	60	317-090-600	19,-	317-090-100	46,-	963-239	245,-	962-239 R	77,-	
1 kg	0,500	307-11 510	- 317-110-400 1	0,-	317-110-600	27,-	317-110-100	68,-	963-241	245,-	962-241R	77,-	
2 kg	1,000	307-12 720	- 317-120-400 1	3,-	317-120-600	32,-	317-120-100	69,-	963-242	550,-	962-242 R	95,-	
5 kg	2,500	307-13 1210	- 317-130-400 2	7,-	317-130-600	53,-	317-130-100	101,-	963-243	550,-	962-243 R	95,-	
10 kg	5,000	307-14 1910	- 317-140-400 2	5,-	317-140-600	75,-	317-140-100	122,-	963-244	550,-	962-244 R	95,-	
20 kg	10,000	307-15 4280	,	_	317-150-600	105,-	317-150-100	630,-	963-245	1280,	962-245 R	720,-	
50 kg	25,000	307-16 8190	,- -	_	317-160-600	305,-	317-160-100	880,-	963-246	1500,	962-246 R	800,-	

^{*} For E1 weights > 1g at the point of DAkkS initial calibration, a volume determination will be carried out in accordance with OIML:R111. When recalibrating according to DAkkS, this is not required.

Class E1 · Weight sets, knob shape

Test weight material: stainless steel polished

Weight set	Knob shape in plastic case		minium protected in		ape en case	DAkkS certificate Initial calibration*		DAkkS certificate Recalibration	
		€ KERN	} €	KERN	í /// j €	KERN	€		€
1 mg – 500 mg	308-42 1200	- 308-426	1200,-			962-250 4	135,-	962-250 R	465,-
1 mg - 50 g	303-024 1860	- 303-026	1760,-	303-02			100,-	962-201R	820,-
1 mg - 100 g	303-034 1950	- 303-036	1910,-	303-03	1960,-	963-202 15	520,-	962-202 R	850,-
1 mg - 200 g	303-044 225 0	- 303-046	2270,-	303-04	2300,-	963-203 17	750,-	962-203 R	930,-
1 mg - 500 g	303-054 2590	- 303-056	2610,-	303-05	2650,-	963-204 18	360,-	962-204 R	970,-
1 mg – 1 kg	303-064 324 0	- 303-066	3340,-	303-06	3200,-	963-205 19	980,-	962-205 R	1050,-
1 mg – 2 kg	303-074 4590	- 303-076	4570,-	303-07	4680,-	963-206 25	580,-	962-206 R	1110,-
1 mg – 5 kg	303-084 5850	,- 303-086	5890,-	303-08	6060,-	963-207 28	390,-	962-207 R	1160,-
1 mg – 10 kg		303-096	7920,-	303-09	8070,-	963-208 32	290,-	962-208 R	1200,-
1 g - 50 g	304-024 940	,- 304-026	970,-	304-02	1000,-	963-215 10	10,-	962-215 R	365,-
1 g - 100 g	304-034 1120	- 304-036	1140,-	304-03	1180,-	963-216 11	100,-	962-216 R	395,-
1 g - 200 g	304-044 1560	- 304-046	1590,-	304-04	1620,-	963-217 13	340,-	962-217 R	475,-
1 g - 500 g	304-054 1890	- 304-056	1910,-	304-05	1940,-	963-218 14	160,-	962-218 R	520,-
1 g – 1 kg	304-064 2320	- 304-066	2340,-	304-06	2400,-	963-219 16	500,-	962-219 R	560,-
1 g - 2 kg	304-074 375 0	- 304-076	3770,-	304-07	3830,-	963-220 22	240,-	962-220 R	640,-
1 g - 5 kg	304-084 4900	- 304-086	4920,-	304-08	5030,-	963-221 26	520,-	962-221R	660,-
1 g - 10 kg		304-096	6810,-	304-09	6940,-	963-222 30	060,-	962-222 R	720,-

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Test Weights and Boxes Class E2



Milligram weights, flat polygonal sheet



Individual weights, compact shape



Individual weights, knob shape



Plastic box, lined, for individual weights ≤ 50 g



Plastic box, lined, for individual weights ≥ 100 g



Aluminium protected box, lined, for individual weights



Wooden box, lined, for individual weights $\leq 500 \text{ g}$



Wooden box, lined, for individual weights ≥1 kg



Milligram weight set in plastic case (318-22)



Milligram weight set in aluminium protected case, lined (318-226)



Plastic case, lined, for weight sets, compact shape/knob shape



Aluminium protected case, lined, for weight sets, compact shape/knob shape



Wooden case, lined, for weight sets, compact shape/knob shape

Class E2 · Milligram weights, flat polygonal sheet

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate	
		KERN €	KERN ■ €	KERN 🗗 €	KERN ¥	KERN €	
1 mg	0,006	318-01 29,-	347-009-400 3,-	317-009-600 14,-	338-090-200 34,-	962-351 33,-	
2 mg	0,006	318-02 29,-	347-009-400 3,-	317-009-600 14,-	338-090-200 34,-	962-352 33,-	
5 mg	0,006	318-03 29,-	347-009-400 3,-	317-009-600 14,-	338-090-200 34,-	962-353 33,-	
10 mg	0,008	318-04 29,-	347-009-400 3,-	317-009-600 14,-	338-090-200 34,-	962-354 33,-	
20 mg	0,010	318-05 29,-	347-009-400 3,-	317-009-600 14,-	338-090-200 34,-	962-355 33,-	
50 mg	0,012	318-06 29,-	347-009-400 3,-	317-009-600 14,-	338-090-200 34,-	962-356 33,-	
100 mg	0,016	318-07 29,-	347-009-400 3,-	317-009-600 14,-	338-090-200 34,-	962-357 33,-	
200 mg	0,020	318-08 29, -	347-009-400 3,-	317-009-600 14,-	338-090-200 34,-	962-358 33,-	
500 mg	0,025	318-09 29, -	347-009-400 3,-	317-009-600 14,-	338-090-200 34,-	962-359 33,-	

Class E2 · Individual weights, compact shape or knob shape

Test weight material: stainless steel polished

Weight	Tol +/- mg	Individual weights, compact shape	Individual weights, knob shape	Plastic box	Aluminium protected box		DAkkS certificate
		KERN €	KERN €	KERN €	KERN 🗗 €	KERN €	KERN €
1 g	0,03	316-01 41,-	317-01 59, -	317-020-400 4,80	317-010-600 14,-	317-010-100 30,-	962-331 33,-
2 g	0,04	316-02 41,-	317-02 60,-	317-020-400 4,80	317-020-600 17,-	317-020-100 30,-	962-332 33,-
5 g	0,05	316-03 43,-	317-03 63,-	317-030-400 4,80	317-030-600 15,-	317-030-100 32,-	962-333 33,-
10 g	0,06	316-04 44,-	317-04 67,-	317-040-400 4,80	317-040-600 15,-	317-040-100 30,-	962-334 33,-
20 g	0,08	316-05 47,-	317-05 76,-	317-050-400 4,80	317-050-600 15,-	317-050-100 31,-	962-335 33,-
50 g	0,10	316-06 53,-	317-06 80,-	317-060-400 6,10	317-060-600 14,-	317-060-100 32,-	962-336 33,-
100 g	0,16	316-07 59, -	317-07 88,-	317-070-400 8,-	317-070-600 14,-	317-070-100 35,-	962-337 41,-
200 g	0,30	316-08 69,-	317-08 114,-	317-080-400 7,70	317-080-600 14,-	317-080-100 36,-	962-338 41,-
500 g	0,80	316-09 103,-	317-09 193,-	317-090-400 8,60	317-090-600 19,-	317-090-100 46,-	962-339 41,-
1 kg	1,60	316-11 151,-	317-11 285,-	317-110-400 10,-	317-110-600 27,-	317-110-100 68,-	962-341 41,-
2 kg	3,00	316-12 260,-	317-12 440,-	317-120-400 13,-	317-120-600 32,-	317-120-100 69,-	962-342 50,-
5 kg	8,00	316-13 430,-	317-13 630,-	317-130-400 27,-	317-130-600 53,-	317-130-100 101,-	962-343 50,-
10 kg	16,00	316-14 700,-	317-14 940,-	317-140-400 25,-	317-140-600 75,-	317-140-100 122,-	962-344 50,-
20 kg	30,00		317-15 2330,-		317-150-600 105,-	317-150-100 630,-	962-345 65,-
50 kg	80,00	-	317-16 4810,-		317-160-600 305,-	317-160-100 880,-	962-346 75,-

Class E2 · Weight sets, compact shape

Test weight material: Milligram weights stainless steel, individual weights: polished stainless steel

Weight sets			Compact aluminiu	•	DAkkS certificate		
	KERN	€	KERN		€	KERN	€
1 g - 50 g	312-024	465,-	312-026	NEW	440,-	962-315	152,-
1 g - 100 g	312-034	520,-	312-036	NEW	500,-	962-316	182,-
1 g - 200 g	312-044	650,-	312-046	NEW	630,-	962-317	240,-
1 g - 500 g	312-054	750,-	312-056	NEW	730,-	962-318	275,-
1 g - 1 kg	312-064	970,-	312-066	NEW	970,-	962-319	305,-
1 g - 2 kg	312-074	1350,-	312-076	NEW	1400,-	962-320	375,-
1 g - 5 kg	312-084	1790,-	312-086	NEW	1870,-	962-321	425,-
1 g -10 kg	-	-	312-096	NEW	2510,-	962-322	460,-

Note

Our highly-accurate OIML test weights are also available as **PREMIUM**⁺ **weights** for that extra level of safety. See all details page 194 or on **www.kern-lab.com/premium**+

Mew model

Class E2 · Weight sets, knob shape

Test weight material: Milligram weights stainless steel, individual weights: polished stainless steel

Weight sets	Knob shape in plastic case	Knob shape in aluminium protected case	Knob shape in wooden case	DAkkS certificate	
	KERN €				
1 mg - 500 mg	318-22 370,-	318-226 430, -		962-350 225,-	
	1010001	Takanak	Ta		
1 mg - 50 g	313-024 930,-			962-301 370,-	
1 mg - 100 g	313-034 1010,-				
1 mg - 200 g	313-044 1220, -	,	,	962-303 465,-	
1 mg - 500 g	313-054 1360, -	313-056 1390, -	313-05 1480,-	962-304 495,-	
1 mg - 1 kg	313-064 1690,-	313-066 1730 ,-	313-06 1790,-	962-305 520,-	
1 mg - 2 kg	313-074 2560, -	313-076 2620, -	313-07 2650,-	962-306 580,-	
1 mg - 5 kg	313-084 3220,-	313-086 3290,-	313-08 3410,-	962-307 620,-	
1 mg - 10 kg		313-096 4400,-	313-09 4500,-	962-308 660,-	
1 g - 50 g	314-024 610,-	314-026 640,-	314-02 650,-		
1 g - 100 g	314-034 680,-	314-036 710, -	314-03 740,-	962-316 182,-	
1 g - 200 g	314-044 870,-	314-046 900,-	314-04 940,-	962-317 240,-	
1 g - 500 g	314-054 1070,-	314-056 1100,-	314-05 1160,-	962-318 275,-	
1 g - 1 kg	314-064 1370,-	314-066 1400, -	314-06 1470,-	962-319 305,-	
1 g - 2 kg	314-074 2250,-	314-076 2300, -	314-07 2340,-		
1 g - 5 kg	314-084 2910,-	314-086 2980, -	314-08 3100,-	962-321 425,-	
1 g -10 kg		314-096 4060, -	314-09 4190, -	962-322 460,-	

Note

Our highly-accurate OIML test weights are also available as **PREMIUM**⁺ **weights** for that extra level of safety. See all details page 194 or on **www.kern-lab.com/premium**+

Test Weights and Boxes Class F1



Milligram weights, flat polygonal sheet



Individual weights/ Weight sets, ECO shape



Individual weights/ Weight sets, knob shape



Test weights (10 – 50 kg), polished stainless steel, KERN 327-141 ff, optional: Wooden box



Block weight, polished stainless steel



Plastic box, lined, for individual weights ≤ 200 g



Plastic box, lined, for individual weights ≥ 500 g



Aluminium protected box, lined, for individual weights



Wooden box, lined, for individual weights ≤ 500 g



Wooden box, lined, for individual weights ≥1 kg



Milligram weight set in plastic case (328-22)



Milligram weight set in aluminium protected case, lined (328-226)



Plastic case, lined for weight sets, ECO shape/knob shape



Aluminium protected case, lined, for weight sets ECO shape/knob shape



Wooden case, lined, for weight sets ECO shape/knob shape

Class F1 · Milligram weights, flat polygonal sheet

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate	
		KERN €	KERN = €	KERN 🗗 €	KERN X €	KERN €	
1 mg	0,020	328-01 15,-	347-009-400 2,-	317-009-600 14,-	338-090-200 34,-	962-451 21,-	
2 mg	0,020	328-02 15,-	347-009-400 2,-	317-009-600 14,-	338-090-200 34,-	962-452 21,-	
5 mg	0,020	328-03 15,-	347-009-400 2,-	317-009-600 14,-	338-090-200 34,-	962-453 21,-	
10 mg	0,025	328-04 15,-	347-009-400 2,-	317-009-600 14,-	338-090-200 34,-	962-454 21,-	
20 mg	0,03	328-05 15,-	347-009-400 2,-	317-009-600 14,-	338-090-200 34,-	962-455 21,-	
50 mg	0,04	328-06 15,-	347-009-400 2,-	317-009-600 14,-	338-090-200 34,-	962-456 21,-	
100 mg	0,05	328-07 15,-	347-009-400 2,-	317-009-600 14,-	338-090-200 34,-	962-457 21,-	
200 mg	0,06	328-08 15,-	347-009-400 2,-	317-009-600 14,-	338-090-200 34,-	962-458 21,-	
500 mg	0,08	328-09 15,-	347-009-400 2,-	317-009-600 14,-	338-090-200 34,-	962-459 21,-	

Class F1 · Individual weights, ECO shape or knob shape

Test weight material: stainless steel polished

Weight	Tol +/- mg	Individual weight, ECO shape	- 1	Individual weight, knob shape	Plastic box		Aluminium pr box	otected			DAkkS cer	tificate
		KERN	€	KERN €	KERN	€	KERN 🗗	€	KERN X	€	KERN	€
1 g	0,10	326-01	37,-	327-01 39,-	347-030-400	2,-	317-010-600	14,-	317-010-100	30,-	962-431	21,-
2 g	0,12	326-02	37,-	327-02 39,-	347-030-400	2,-	317-020-600	17,-	317-020-100	30,-	962-432	21,-
5 g	0,16	326-03	39,-	327-03 40,-	347-030-400	2,-	317-030-600	15,-	317-030-100	32,-	962-433	21,-
10 g	0,20	326-04	10,-	327-04 44,-	347-050-400	2,-	317-040-600	15,-	317-040-100	30,-	962-434	21,-
20 g	0,25	326-05	12,-	327-05 50,-	347-050-400	2,-	317-050-600	15,-	317-050-100	31,-	962-435	21,-
50 g	0,30	326-06	51,-	327-06 58,-	347-070-400	2,-	317-060-600	14,-	317-060-100	32,-	962-436	21,-
100 g	0,50	326-07	56,-	327-07 63,-	347-070-400	2,-	317-070-600	14,-	317-070-100	35,-	962-437	23,-
200 g	1,00	326-08	52,-	327-08 81,-	347-080-400	2,10	317-080-600	14,-	317-080-100	36,-	962-438	23,-
500 g	2,50	326-09	98,-	327-09 130,-	347-090-400	3,-	317-090-600	19,-	317-090-100	46,-	962-439	23,-
1 kg	5,00	326-11 1 3	30,- 🗆	327-11 164,-	347-110-400	3,80	317-110-600	27,-	317-110-100	68,-	962-441	23,-
2 kg	10	326-12 2	15,-	327-12 255,-	347-120-400	5,-	317-120-600	32,-	317-120-100	69,-	962-442	30,-
5 kg	25	326-13 3 4	10,-	327-13 405,-	347-130-400	11,-	317-130-600	53,-	317-130-100	101,-	962-443	30,-
10 kg	50	326-14 5 6	50,-	327-14 740,-	347-140-400	16,-	317-140-600	75,-	317-140-100	122,-	962-444	30,-
20 kg	100	-	- ;	327-15 1830,-	-	-	317-150-600	105,-	317-150-100	630,-	962-445	34,-
50 kg	250	_	- ;	327-16 3930,-	-	-	317-160-600	305,-	317-160-100	880,-	962-446	46,-

Class F1 · Block weights

Block weight material: stainless steel polished

Weight	Tol +/- mg	Block weight A		Aluminium protected box		DAkkS certificate	
		Luca Luca Luca Luca Luca Luca Luca Luca					
		KERN	€	KERN	€	KERN	€
5 kg	25	326-36	960,-	346-060-600	80,-	962-443	30,-
10 kg	50	326-37	1390,-	346-070-600	104,-	962-444	30,-
20 kg	100	326-38	1910,-	346-080-600	152,-	962-445	34,-
50 kg	250	326-39	4720,-	346-090-600	171,-	962-446	46,-

Class F1 · Test weights, stackable

Test weight material: stainless steel polished

Weight	Tol +/- mg	Test weight		Wooden box		DAkkS cer	tificate
		KERN	€	KERN []	€	KERN	€
10 kg	50	327-141	1370,-	337-141-100	340,-	962-444	30,-
20 kg	100	327-151	1700,-	337-151-100	370,-	962-445	34,-
50 kg	250	327-161	3880,-	337-161-100	570,-	962-446	46,-

Test weight material: Milligram weights stainless steel, Individual weights: polished stainless steel

Weight sets	ECO shape in plastic case	ECO shape in aluminium protected case	ECO shape in wooden case	DAkkS certificate	
	KERN €	KERN	KERN (NET) €	KERN €	
1 mg - 500 mg	328-22 194,-	328-226 255, -		962-450 118,-	
1 mg - 50 g	325-024 550, -	325-026 560, -	325-022 600, -	962-401 197,-	
1 mg - 100 g	325-034 600, -	325-036 620, -	325-032 650, -	962-402 210,-	
1 mg - 200 g	325-044 690, -	325-046 710, -	325-042 740, -	962-403 235,-	
1 mg - 500 g	325-054 790, -	325-056 810, -	325-052 910, -	962-404 245,-	
1 mg - 1 kg	325-064 1010,-	325-066 1020, -	325-062 1060, -	962-405 255,-	
1 mg - 2 kg	325-074 1300, -	325-076 1320, -	325-072 1370, -	962-406 295,-	
1 mg - 5 kg	325-084 1580, -	325-086 1620, -	325-082 1780, -	962-407 310,-	
1 mg - 10 kg		325-096 2340,-	325-092 2390, -	962-408 335,-	
1 g - 50 g	326-024 375, -	326-026 390, -	326-022 440, -	962-415 79,-	
1 g - 100 g	326-034 420,-	326-036 440,-	326-032 490, -	962-416 91,-	
1 g - 200 g	326-044 520, -	326-046 540, -	326-042 600, -	962-417 116,-	
1 g - 500 g	326-054 610,-	326-056 630, -	326-052 750, -	962-418 128,-	
1 g - 1 kg	326-064 830,-	326-066 850, -	326-062 900, -	962-419 141,-	
1 g - 2 kg	326-074 1110,-	326-076 1140, -	326-072 1220, -	962-420 177,-	
1 g - 5 kg	326-084 1410,-	326-086 1430, -	326-082 1630, -		
1 g - 10 kg	-	326-096 2070, -	326-092 2240,-	962-422 215,-	

Class F1 · Weight sets, knob shape

Test weight material: Milligram weights stainless steel, Individual weights: polished stainless steel

Weight sets	Knob shape in plastic case	Knob shape protected ca	in aluminium ise	Knob shape in wooden case		DAkkS cert	tificate
	KERN €	KERN	€	7777	l _€	KERN	€
1 mg - 500 mg	328-22 194, -	328-226	255,-	-	-	962-450	118,-
1 mg - 50 g	323-024 610, -	323-026	600,-		640,-	962-401	197,-
1 mg - 100 g	323-034 670,-		660,-		700,-	962-402	210,-
1 mg - 200 g	323-044 820,-	l	800,-		880,-	962-403	235,-
1 mg - 500 g	323-054 970,-		940,-		1090,-	962-404	245,-
1 mg - 1 kg	323-064 1240,-		1180,-		1230,-	962-405	255,-
1 mg - 2 kg	323-074 1640,-		1590,-		1730,-	962-406	295,-
1 mg - 5 kg	323-084 2020, -	·	1960,-		2200,-	962-407	310,-
1 mg - 10 kg	-	323-096	2790,-	323-09	3040,-	962-408	335,-
1 g - 50 g	324-024 430, -	324-026	420,-	324-02	480,-	962-415	79,-
1 g - 100 g	324-034 490, -	324-036	485,-	324-03	560,-	962-416	91,-
1 g - 200 g	324-044 650, -	324-046	640,-	324-04	720,-	962-417	116,-
1 g - 500 g	324-054 780, -	324-056	770,-	324-05	880,-	962-418	128,-
1 g - 1 kg	324-064 1060,-	324-066	1020,-	324-06	1070,-	962-419	141,-
1 g - 2 kg	324-074 1460,-	324-076	1420,-	324-07	1570,-	962-420	177,-
1 g - 5 kg	324-084 1840,-	324-086	1840,-	324-08	2040,-	962-421	196,-
1 g - 10 kg		324-096	2650,-	324-09	2870,-	962-422	215,-

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Test Weights and Boxes Class F2



Milligram weights, flat polygonal sheet



Individual weights/Weight sets, knob shape



Block weight, stainless steel



Test weights (10 – 50 kg), finely turned stainless steel, KERN 337-141 ff, optional: Wooden box



Plastic box, lined, for individual weights ≤ 200 g



Plastic box, lined, for individual weights ≥ 500 g



Aluminium protected box, lined, for individual weights



Wooden box, not lined for individual weights ≤ 500 g



Wooden box, not lined, for individual weights ≥1 kg



Milligram weight set in plastic case (338-22)



Milligram weight set in aluminium protected case, lined (338-226)



Plastic case, lined, for weight sets, knob shape



Aluminium protected case, lined, for weight sets, knob shape



Wooden case, for weight sets, knob shape

Class F2 · Milligram weights, flat polygonal sheet

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, flat polygonal sheet	Plastic box	Plastic box Aluminium box		nium protected Wooden box			DAkkS cert	ificate
		KERN €	KERN	€	KERN 🛅	€	KERN	€	KERN	€
1 mg	0,06	338-01 10, ·	347-009-400	2,-	317-009-600	14,-	338-090-200	34,-	962-451	21,-
2 mg	0,06	338-02 10,	347-009-400	2,-	317-009-600	14,-	338-090-200	34,-	962-452	21,-
5 mg	0,06	338-03 10, ·	347-009-400	2,-	317-009-600	14,-	338-090-200	34,-	962-453	21,-
10 mg	0,08	338-04 10, ·	347-009-400	2,-	317-009-600	14,-	338-090-200	34,-	962-454	21,-
20 mg	0,10	338-05 10, ·	347-009-400	2,-	317-009-600	14,-	338-090-200	34,-	962-455	21,-
50 mg	0,12	338-06 10 ,	347-009-400	2,-	317-009-600	14,-	338-090-200	34,-	962-456	21,-
100 mg	0,16	338-07 10 ,	347-009-400	2,-	317-009-600	14,-	338-090-200	34,-	962-457	21,-
200 mg	0,20	338-08 10 ,	347-009-400	2,-	317-009-600	14,-	338-090-200	34,-	962-458	21,-
500 mg	0,25	338-09 10,	347-009-400	2,-	317-009-600	14,-	338-090-200	34,-	962-459	21,-

Class F2 · Individual weights, knob shape

Test weight material: finely turned stainless steel

Weight	Tol +/- mg	Individual weight, knob shape	Plastic box	Aluminium protected box	Wooden box	DAkkS certificate
		KERN €	KERN ■ €	KERN €	KERN ¥ €	KERN €
1 g	0,3	337-01 23,-	347-030-400 2,-	317-010-600 14,-	337-010-200 21,-	962-431 21,-
2 g	0,4	337-02 24,-	347-030-400 2,-	317-020-600 17,-	337-020-200 17,-	962-432 21,-
5 g	0,5	337-03 26,-	347-030-400 2,-	317-030-600 15,-	337-030-200 18,-	962-433 21,-
10 g	0,6	337-04 28,-	347-050-400 2,-	317-040-600 15,-	337-040-200 18,-	962-434 21,-
20 g	0,8	337-05 29,-	347-050-400 2,-	317-050-600 15,-	337-050-200 18,-	962-435 21,-
50 g	1,0	337-06 32,-	347-070-400 2,-	317-060-600 14,-	337-060-200 20,-	962-436 21,-
100 g	1,6	337-07 36,-	347-070-400 2,-	317-070-600 14,-	337-070-200 24,-	962-437 23,-
200 g	3,0	337-08 48,-	347-080-400 2,10	317-080-600 14,-	337-080-200 25,-	962-438 23,-
500 g	8,0	337-09 71,-	347-090-400 3,-	317-090-600 19,-	337-090-200 29,-	962-439 23,-
1 kg	16	337-11 93,-	347-110-400 3,80	317-110-600 27,-	337-110-200 43,-	962-441 23,-
2 kg	30	337-12 147,-	347-120-400 5,-	317-120-600 32,-	337-120-200 47,-	962-442 30,-
5 kg	80	337-13 265,-	347-130-400 11,-	317-130-600 53,-	337-130-200 92,-	962-443 30,-
10 kg	160	337-14 510,-	347-140-400 16,-	317-140-600 75,-	337-140-200 93,-	962-444 30,-
20 kg	300	337-15 770,-		317-150-600 105,-	337-150-200 390,-	962-445 34,-
50 kg	800	337-16 1520,-		317-160-600 305,-	337-160-200 610,-	962-446 46,-

Class F2 · Test weights, stackable

Test weight material: finely turned stainless steel

Weight	Tol +/- mg	Test weight		Wooden box		DAkkS cert	ificate
		KERN	€	KERN	€	KERN	€
10 kg	160	337-141	650,-	337-141-200	360,-	962-444	30,-
20 kg	300	337-151	830,-	337-151-200	390,-	962-445	34,-
50 kg	800	337-161	2130,-	337-161-200	610,-	962-446	46,-

Class F2 · Block weights

Block weight material: stainless steel glass bead blasted

Weight	Tol +/- mg	Block weight A		Aluminium protec	DAkkS certificate		
		KERN	€	KERN	∃ €	KERN	€
5 kg	80	336-36		346-060-600		962-443	30,-
10 kg	160	336-37	820,-	346-070-600	104,-	962-444	30,-
20 kg	300	336-38	1120,-	346-080-600	152,-	962-445	34,-
50 kg	800	336-39	2300,-	346-090-600	171,-	962-446	46,-

Class F2 · Weight sets, knob shape

Test weight material: Milligram weights stainless steel, individual weights finely turned stainless steel

Weight	Knob shape in plastic case		•		Knob shape in wooden case		DAkkS certificate	
	KERN	€ KERN	€	KERN	[////] €	KERN	€	
1 mg - 500 mg	338-22 1 5	59,- 338-22	6 200, -	-	-	962-450	118,-	
1 mg - 50 g	333-024 3 9	90,- 333-02	6 410,-	333-02	410,-	962-401	197,-	
1 mg - 100 g	333-034 4 3	35,- 333-03	6 450 ,-	333-03	455,-	962-402	210,-	
1 mg - 200 g	333-044 5	10,- 333-04	6 520, -	333-04	520,-	962-403	235,-	
1 mg - 500 g	333-054 5 8	30,- 333-05	6 600, -	333-05	610,-	962-404	245,-	
1 mg - 1 kg	333-064 7 3	30,- 333-06	6 750, -	333-06	760,-	962-405	255,-	
1 mg - 2 kg	333-074 10 3	30,- 333-07	6 1050, -	333-07	1060,-	962-406	295,-	
1 mg - 5 kg	333-084 13	10,- 333-08	6 1420, -	333-08	1420,-	962-407	310,-	
1 mg - 10 kg	-	- 333-09	6 2060, -	333-09	1980,-	962-408	335,-	
1 g - 50 g	334-024 2 5	55,- 334-02	6 275, -	334-02	270,-	962-415	79,-	
1 g - 100 g	334-034 3 0	00,- 334-03	6 315, -	334-03	320,-	962-416	91,-	
1 g - 200 g	334-044 3 9	95,- 334-04	6 415, -	334-04	415,-	962-417	116,-	
1 g - 500 g	334-054 4 3	70,- 334-05	6 490, -	334-05	490,-	962-418	128,-	
1 g - 1 kg	334-064 6	10,- 334-06	6 620, -	334-06	630,-	962-419	141,-	
1 g - 2 kg	334-074 8 9	90,- 334-07	6 940, -	334-07	940,-	962-420	177,-	
1 g - 5 kg	334-084 11	50,- 334-08	6 1300, -	334-08	1290,-	962-421	196,-	
1 g -10 kg	-	- 334-09	6 1750, -	334-09	1810,-	962-422	215,-	

Test Weights and Boxes Class M1



Milligram weights, flat polygonal sheet



Individual weights/weight sets, knob shape, finely turned stainless steel



Hook weights, finely turned stainless steel



Slotted weights, finely turned stainless steel



Plastic box, for individual weights ≤ 200 g, for hook weights and slotted weights ≤ 50 g



Plastic box, lined, for individual weights ≥ 500 g, for hook weights and slotted weights ≥ 100 g



Aluminium protected box, lined, for individual weights



Wooden box, not lined, for individual weights ≤ 500 g



Wooden box, not lined, for individual weights ≥1 kg



Milligram weight set in plastic case (348-22)



Milligram weight set in aluminium protected case, lined (348-226)



Plastic case, lined, for weight sets, knob shape, finely turned stainless steel



Aluminium protected case, lined, for weight sets, knob shape, finely turned stainless steel



Wooden case, for weight sets, knob shape, finely turned stainless steel



Test weights (10 – 50 kg), finely turned stainless steel KERN 347-141 ff, optional: Wooden box



Beam bars, aluminium or stainless steel



Block weights, lacquered cast iron/stainless steel glass bead blasted, optional: Aluminium protected box, lined

Class M1 · Milligram weights, flat polygonal sheet

Test weight material: stainless steel

Weight	Tol +/- mg	Milligram weight, flat polygonal she				Aluminium protected box					DAkkS certificate		
		KERN	€	KERN	€	KERN	-	€	KERN	/ d /	€	KERN	€
1 mg	0,20	348-01	5,10	347-009-400	2,-	317-009-	600 14	1,-	338-090	-200	34,-	962-651	17,-
2 mg	0,20	348-02	5,10	347-009-400	2,-	317-009-	600 14	1,-	338-090	-200	34,-	962-652	17,-
5 mg	0,20	348-03	5,10	347-009-400	2,-	317-009-	600 14	1,-	338-090	-200	34,-	962-653	17,-
10 mg	0,25	348-04	5,10	347-009-400	2,-	317-009-	600 14	1,-	338-090	-200	34,-	962-654	17,-
20 mg	0,30	348-05	5,10	347-009-400	2,-	317-009-	600 14	1,-	338-090	-200	34,-	962-655	17,-
50 mg	0,40	348-06	5,10	347-009-400	2,-	317-009-	600 14	1,-	338-090	-200	34,-	962-656	17,-
100 mg	0,50	348-07	5,10	347-009-400	2,-	317-009-	600 14	1,-	338-090	-200	34,-	962-657	17,-
200 mg	0,60	348-08	5,10	347-009-400	2,-	317-009-	600 14	1,-	338-090	-200	34,-	962-658	17,-
500 mg	0,80	348-09	5,10	347-009-400	2,-	317-009-	600 14	4,-	338-090	-200	34,-	962-659	17,-

Class M1 · Individual weights, knob shape

Test weights material: stainless steel

Weight	Tol +/- mg	Individual weight			Aluminium protected box	Wooden box	DAkkS certificate	
		KERN €	KERN	€	KERN 🗗 €	KERN €	KERN €	
1 g	1,0	347-01 8,40	347-030-400	2,-	317-010-600 14,-	337-010-200 21,-	962-631 17,-	
2 g	1,2	347-02 8,80	347-030-400	2,-	317-020-600 17,-	337-020-200 17,-	962-632 17,-	
5 g	1,6	347-03 8,90	347-030-400	2,-	317-030-600 15,-	337-030-200 18,-	962-633 17,-	
10 g	2,0	347-04 9,60	347-050-400	2,-	317-040-600 15,-	337-040-200 18,-	962-634 17,-	
20 g	2,5	347-05 15,-	347-050-400	2,-	317-050-600 15,-	337-050-200 18,-	962-635 17,-	
50 g	3,0	347-06 16,-	347-070-400	2,-	317-060-600 14,-	337-060-200 20,-	962-636 17,-	
100 g	5,0	347-07 19,-	347-070-400	2,-	317-070-600 14,-	337-070-200 24,-	962-637 19,-	
200 g	10	347-08 24,-	347-080-400 2	2,10	317-080-600 14,-	337-080-200 25,-	962-638 19,-	
500 g	25	347-09 37,-	347-090-400	3,-	317-090-600 19,-	337-090-200 29,-	962-639 19,-	
1 kg	50	347-11 60,-	347-110-400	3,80	317-110-600 27,-	337-110-200 43,-	962-641 19,-	
2 kg	100	347-12 100,-	347-120-400	5,-	317-120-600 32,-	337-120-200 47,-	962-642 19,-	
5 kg	250	347-13 220,-	347-130-400	11,-	317-130-600 53,-	337-130-200 92,-	962-643 20,-	
10 kg	500	347-14 420,-	347-140-400	16,-	317-140-600 75,-	337-140-200 93,-	962-644 20,-	

Class M1 · Block weights

Block weight material: lacquered cast iron, surface and edges machined or unmachined (ECO)

Weight	Tol +/- g	Block weight	ECO Block weight	Aluminium protected box	DAkkS certificate	
		KERN	E KERN €	KERN €	KERN €	
5 kg	0,25	346-86 72 ,	- 346-76 61, -	346-060-600 80,-	962-643 20,-	
10 kg	0,50	346-87 125 ,	- 346-77 97, -	346-070-600 104,-	962-644 20,-	
20 kg	1,00	346-88 235 ,	- 346-78 179, -	346-080-600 152,-	962-645 25,-	
50 kg	2,50	346-89 530,	- 346-79 455, -	346-090-600 171,-	962-646 28,-	

Class M1 · Block weights

Block weight material: stainless steel glass bead blasted

Weight	Tol +/- g	Block weight		Aluminium protecte	DAkkS certificate		
		KERN	€	KERN	€	KERN	€
5 kg	0,25	346-06	455,-	346-060-600	80,-	962-643	20,-
10 kg	0,50	346-07	590,-	346-070-600	104,-	962-644	20,-
20 kg	1,00	346-08	820,-	346-080-600	152,-	962-645	25,-
50 kg	2,50	346-09	2090,-	346-090-600	171,-	962-646	28,-

Class M1 · Test weights, stackable

Test weight material: finely turned stainless steel

Weight	Tol +/- g	Test weight		Wooden box		DAkkS ce	rtificate
		KERN	€	KERN	[////] €	KERN	€
10 kg	0,5	347-141	640,-	337-141-200	360,-	962-644	20,-
20 kg	1,0	347-151	810,-	337-151-200	390,-	962-645	25,-
50 kg	2,5	347-161	2050,-	337-161-200	610,-	962-646	28,-

Class M1 · Heavy duty weights, stackable

Heavy duty weight material: lacquered cast iron

Designed to be lifted with forklift trucks or cranes, delivery time is approx. 6-8 weeks

Dimensions: see internet on www.kern-sohn.com

Weight	Tol +/- g	Heavy duty weight		DAkkS cert	ificate
		KERN	€	KERN	€
100 kg	5	346-81	1920,-	962-691	74,-
200 kg	10	346-82	2930,-	962-692	74,-
500 kg	25	346-83	5310,-	962-693	74,-
1000 kg	50	346-84	7550,-	962-694	161,-
2000 kg	100	346-85	14000,-	962-695	295,-



Class M1 · Weight sets, knob shape

Test weight material: Milligram weights stainless steel, individual weights finely turned stainless steel

Weight	Knob shape, in plastic case	Knob shape, in aluminium protected case	Knob shape, in wooden case	DAkkS certificate	
	KERN €	KERN €	KERN (N) €	KERN	€
1 mg - 500 mg	348-22 95,-	348-226 159, -		962-650	74,-
1 mg – 50 g	343-024 285, -	343-026 245, -	343-02 225, -	962-601	125,-
1 mg - 100 g	343-034 305,-	343-036 265, -	343-03 245,-	962-602	131,-
1 mg – 200 g	343-044 350,-	343-046 315,-	343-04 295,-	962-603	148,-
1 mg - 500 g	343-054 390,-	343-056 350,-	343-05 375,-	962-604	154,-
1 mg – 1 kg	343-064 550,-	343-066 450,-	343-06 550,-	962-605	162,-
1 mg – 2 kg	343-074 730, -	343-076 680,-	343-07 740,-	962-606	178,-
1 mg – 5 kg	343-084 920, -	343-086 920, -	343-08 1040,-	962-607	189,-
1 mg – 10 kg		343-096 1350, -	343-09 1480,-	962-608	197,-
1 g - 50 g	344-024 198, -	344-026 172, -	344-02 153,-	962-615	49,-
1 g - 100 g	344-034 215, -	344-036 191,-	344-03 176,-	962-616	58,-
1 g - 200 g	344-044 265, -	344-046 240, -	344-04 220,-	962-617	71,-
1 g – 500 g	344-054 305, -	344-056 280, -	344-05 295, -	962-618	80,-
1 g - 1 kg	344-064 460, -	344-066 375, -	344-06 435,-	962-619	87,-
1 g - 2 kg	344-074 650,-	344-076 610,-	344-07 640,-	962-620	105,-
1 g – 5 kg	344-084 840,-	344-086 860, -	344-08 930,-	962-621	113,-
1 g - 10 kg		344-096 1300,-	344-09 1310,-	962-622	122,-

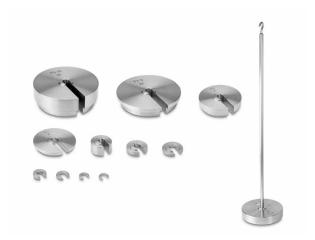
Class M1 · Hook weights

Hook weight mate	rial: finely tu	rned stainless stee	el				
Weight	Tol +/- mg	Hook weight		Plastic box, linne	ed	DAkkS cer	tificate
		KERN	€	KERN	€	KERN	€
1 g	1,0	347-016	26,-	347-030-400	2,-	962-631	17,-
2 g	1,2	347-026	26,-	347-030-400	2,-	962-632	17,-
5 g	1,6	347-036	27,-	347-030-400	2,-	962-633	17,-
10 g	2,0	347-046	27,-	347-050-400	2,-	962-634	17,-
20 g	2,5	347-056	28,-	347-050-400	2,-	962-635	17,-
50 g	3,0	347-066	33,-	347-070-400	2,-	962-636	17,-
100 g	5,0	347-076	37,-	347-090-400	3,-	962-637	19,-
200 g	10,0	347-086	46,-	347-090-400	3,-	962-638	19,-
500 g	25,0	347-096	80,-	347-110-400	3,80	962-639	19,-
1 kg	50,0	347-116	103,-	347-120-400	5,-	962-641	19,-
2 kg	100,0	347-126	168,-	347-130-400	11,-	962-642	20,-
5 kg	250,0	347-136	295,-	347-140-400	16,-	962-643	20,-
10 kg	500,0	347-146	485,-	-	_	962-644	20,-

Class M1 · Slotted weights

Slotted weight material: finely turned stainless steel (only compatible with the 347-...7-100 series supporting bars)

Weight	Tol +/- mg	Slotted w	eight	DAkkS cer	rtificate
		KERN	•	KERN	€
5 g	1,6	347-037	27,	962-633	17,-
10 g	2,0	347-047	29,	962-634	17,-
20 g	2,5	347-057	NEW 31,	962-635	17,-
50 g	3,0	347-067	™ 36,	962-636	17,-
100 g	5,0	347-077	№ 63,	- 962-637	19,-
200 g	10	347-087	™ 70,	- 962-638	19,-
500 g	25	347-097	79,	962-639	19,-
1 kg	50	347-117	170,	962-641	19,-
2 kg	100	347-127	200,	962-642	20,-
5 kg	250	347-137	™ 385,	962-643	20,-
10 kg	500	347-147	₩ 480,	962-644	20,-



Class M1 · Beam bars, for fixing slotted weights

Beam bars material: 10 g: aluminium, 100 g-1 kg: finely turned stainless steel (only compatible with the 347-...7 series supporting bars)

Own weight beam bar	Maximum total load (1)	Largest slotted weight possible	Material	Length	Tol +/- mg	Beam bar	DAkkS certificate
						KERN €	KERN €
1 kg	161 kg	10 kg	Stainless steel	300 mm	50	347-117-100 35,-	962-641 19,-
5 kg	125 kg	10 kg	Stainless steel	600 mm	250	347-137-100 405, -	962-643 20,-
10 kg	180 kg	10 kg	Stainless steel	800 mm	500	347-147-100 530,-	962-644 20,-

 $^{^{}m (1)}$ is exclusive of the own weight of the beam bar, e.g. the maximum possible total weight is calculated from

Newton weights (N)

All hook and slotted weights as well as beam bars are available with N adjustment according to **M1 tolerances**, additional price $\in 8$,-/pc. We need to know the exact location of use of the newton weights (street, postcode, city and country).

DAkkS calibration certificate for N weights: identical to DAkkS prices for individual weights M1, additional price € 8,-



[&]quot;Maximum total load" + "own weight beam bar"

Slotted weight material: finely turned stainless steel

Weight	Tol +/- mg	Slotted weight	Slotted weight P		Plastic box, lined		DAkkS certificate	
		KERN	€	KERN	€	KERN	€	
1 g	1,0	347-015	28,-	347-030-400	2,-	962-631	17,-	
2 g	1,2	347-025	28,-	347-030-400	2,-	962-632	17,-	
5 g	1,6	347-035	30,-	347-030-400	2,-	962-633	17,-	
10 g	2,0	347-045	33,-	347-030-400	2,-	962-634	17,-	
20 g	2,5	347-055	35,-	347-080-400	2,10	962-635	17,-	
50 g	3,0	347-065	37,-	347-080-400	2,10	962-636	17,-	
100 g	5,0	347-075	43,-	347-090-400	3,-	962-637	19,-	
200 g	10	347-085	53,-	347-090-400	3,-	962-638	19,-	
500 g	25	347-095	73,-	347-110-400	3,80	962-639	19,-	
1 kg	50	347-115	130,-	347-130-400	11,-	962-641	19,-	
2 kg	100	347-125	161,-	347-130-400	11,-	962-642	20,-	
5 kg	250	347-135	290,-	347-140-400	16,-	962-643	20,-	
10 kg	500	347-145	430,-	347-140-400	16,-	962-644	20,-	

Class M1 · Beam bars, for fixing slotted weights

Beam bars material: 10 g: aluminium, 100 g-1 kg: finely turned stainless steel

Own weight beam bar	Maximum total load (1)	Largest slotted weight possible	Material	Length	Beam bar		DAkkS certificate	
					KERN	€	KERN	€
10 g	200 g	100 g	Aluminium	117,5	347-445-100*	56,-	962-634	17,-
100 g	2 kg	1 kg	Stainless steel	238	347-075-100**	77,-	962-637	19,-
500 g	20 kg	10 kg	Stainless steel	639	347-095-100***	127,-	962-639	19,-
1 kg	40 kg	10 kg	Stainless steel	1020	347-115-100***	160,-	962-641	19,-

⁽¹⁾ is exclusive of the own weight of the beam bar, e.g. the maximum possible total weight is calculated from

Newton weights (N)

All hook and slotted weights as well as beam bars are available with N adjustment according to **M1 tolerances**, additional price $\in 8$,-/pc. We need to know the exact location of use of the newton weights (street, postcode, city and country).

DAkkS calibration certificate for N weights: identical to DAkkS prices for individual weights M1, additional price € 8,-

[&]quot;Maximum total load" + "own weight beam bar"

Test Weights and Boxes Classes M2 · M3



Individual weights/Weight sets, knob shape, stainless steel



Individual weights/Weight sets, knob shape, lacquered cast iron



Block weights, lacquered cast iron



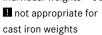
Plastic box, lined, for individual weights



Aluminium protected box, lined, for individual weights



Wooden box, not lined, for individual weights ≤ 500 g,





Wooden box, not lined, for individual weights ≥1 kg,





Aluminium protected case, lined, for block weights



Aluminium protected case, lined, for weight sets knob shape, finely turned stainless steel,

■ not appropriate for cast iron weights



Wooden case, for weight sets, knob shape, finely turned stainless steel



Wooden block, for weight sets, knob shape, lacquered cast iron

Weight	Tol +/- mg	Individual weight, knob shape	Plastic box	Plastic box Aluminium protected box		Wooden box		DAkkS certificate		
		KERN	KERN	€	KERN	⊡ €	KERN X	€	KERN	€
1 g	3	357-01 8,40	347-030-400	2,-	317-010-	600 14, -	337-010-200	21,-	962-631	17,-
2 g	4	357-02 8,8 0	347-030-400	2,-	317-020-	600 17, -	337-020-200	17,-	962-632	17,-
5 g	5	357-03 8,9 0	347-030-400	2,-	317-030-	600 15, -	337-030-200	18,-	962-633	17,-
10 g	6	357-04 9,6 0	347-050-400	2,-	317-040-	600 15, -	337-040-200	18,-	962-634	17,-
20 g	8	357-05 15 ,	347-050-400	2,-	317-050-	600 15, -	337-050-200	18,-	962-635	17,-
50 g	10	357-06 16 ,	347-070-400	2,-	317-060-	600 14, -	337-060-200	20,-	962-636	17,-
100 g	16	357-07 19 ,	347-070-400	2,-	317-070-	600 14, -	337-070-200	24,-	962-637	19,-
200 g	30	357-08 24 ,	347-080-400	2,10	317-080-	600 14, -	337-080-200	25,-	962-638	19,-
500 g	80	357-09 37 ,	347-090-400	3,-	317-090-	600 19, -	337-090-200	29,-	962-639	19,-
1 kg	160	357-11 60 ,	347-110-400	3,80	317-110-	600 27, -	337-110-200	43,-	962-641	19,-
2 kg	300	357-12 100 ,	347-120-400	5,-	317-120-	600 32, -	337-120-200	47,-	962-642	20,-
5 kg	800	357-13 220 ,	347-130-400	11,-	317-130-	600 53, -	337-130-200	92,-	962-643	20,-
10 kg	1600	357-14 420 ,	347-140-400	16,-	317-140-	600 75, -	337-140-200	93,-	962-644	20,-

Class M2 · Block weights

Block weight material: lacquered cast iron, surface and edges machined or unmachined (ECO)

Weight	Tol +/- g	Block weight	ECO block weight	Aluminium protected box	DAkkS certificate	
		KERN	E KERN €	KERN €	KERN €	
5 kg	0,8	356-86 72	- 356-76 61,	· 346-060-600 80,-	962-643 20,-	
10 kg	1,6	356-87 125	- 356-77 97 ,	346-070-600 104,-	962-644 20,-	
20 kg	3,0	356-88 235	- 356-78 179 ,	346-080-600 152,-	962-645 25,-	
50 kg	8,0	356-89 530	- 356-79 455 ,	- 346-090-600 171,-	962-646 28,-	

Class M2 · Weight sets, knob shape

Test weight material: finely turned stainless steel

Weight	• /		Knob shaq in wooder	,	DAkkS certificate	
	KERN E	€	KERN		€ KERN	€
1 g - 50 g	354-026	172,-	354-02	153	- 962-615	49,-
1 g - 100 g	354-036	191,-	354-03	165	- 962-616	58,-
1 g - 200 g	354-046	240,-	354-04	220	- 962-617	71,-
1 g - 500 g	354-056	280,-	354-05	295	- 962-618	80,-
1 g - 1 kg	354-066	375,-	354-06	430	- 962-619	87,-
1 g - 2 kg	354-076	610,-	354-07	630	- 962-620	105,-
1 g – 5 kg	354-086	920,-	354-08	920	- 962-621	113,-
1 g - 10 kg	354-096	1450,-	354-09	1380	962-622	122,-

Class M3 · Individual weights, knob shape

Test weight material: finely turned stainless steel

Weight	Tol +/- mg	Individual weight, knob shape	Plastic box		Aluminium pro box	tected	Wooden box		DAkkS cert	tificate
		KERN €	KERN	€	KERN 🗗	€	KERN	€	KERN	€
1 g	10	367-01 8,40	347-030-400	2,-	317-010-600	14,-	337-010-200	21,-	962-631	17,-
2 g	12	367-02 8,80	347-030-400	2,-	317-020-600	17,-	337-020-200	17,-	962-632	17,-
5 g	16	367-03 8,90	347-030-400	2,-	317-030-600	15,-	337-030-200	18,-	962-633	17,-
10 g	20	367-04 9,60	347-050-400	2,-	317-040-600	15,-	337-040-200	18,-	962-634	17,-
20 g	25	367-05 15, -	347-050-400	2,-	317-050-600	15,-	337-050-200	18,-	962-635	17,-
50 g	30	367-06 16, -	347-070-400	2,-	317-060-600	14,-	337-060-200	20,-	962-636	17,-
100 g	50	367-07 19, -	347-070-400	2,-	317-070-600	14,-	337-070-200	24,-	962-637	19,-
200 g	100	367-08 24, -	347-080-400	2,10	317-080-600	14,-	337-080-200	25,-	962-638	19,-
500 g	250	367-09 37, -	347-090-400	3,-	317-090-600	19,-	337-090-200	29,-	962-639	19,-
1 kg	500	367-11 60, -	347-110-400	3,80	317-110-600	27,-	337-110-200	43,-	962-641	19,-
2 kg	1000	367-12 100, -	347-120-400	5,-	317-120-600	32,-	337-120-200	47,-	962-642	20,-

Class M3 · Individual weights, knob and cylindrical shape

Test weight material: lacquered cast iron

Weight		Tol +/- g	Individual weight, knob and cylindrical shape		DAkkS certi	ficate
			KERN	€	KERN	€
	100 g*	0,05	366-91	24,-	962-637	19,-
	200 g*	0,10	366-92	28,-	962-638	19,-
	500 g**	0,25	366-93	39,-	962-639	19,-
	1 kg**	0,50	366-94	47,-	962-641	19,-
	2 kg**	1,0	366-95	80,-	962-642	20,-
	5 kg**	2,5	366-96	145,-	962-643	20,-
	10 kg**	5,0	366-97	255,-	962-644	20,-



Class M3 · Block weights

Block weight material: lacquered cast iron, surface and edges machined or unmachined (ECO)

Weight	Tol +/- g	Block weight		ECO block weight	Aluminium protected box		DAkkS certifica	ite
		KEDNI	_	KEDNI	LEDNI FOR	•	KEDNI	_
		KERN	€	KERN €	KERN	€	KERN	€
5 kg	2,5	366-86 7	2,-	366-76 61, -	346-060-600	0,-	962-643	20,-
10 kg	5,0	366-87 12	5,-	366-77 97, -	346-070-600 10	4,-	962-644	20,-
20 kg	10	366-88 23	5,-	366-78 179 ,-	346-080-600 15	2,-	962-645	25,-
50 kg	25	366-89 53	0,-	366-79 455 ,-	346-090-600 17	1,-	962-646	28,-

Class M3 · Weight sets, knob and cylindrical shape

Test weight material: ≤ 50 g stainless steel, ≥ 100 g lacquered cast iron

Weight	Knob and cylindrical shape, in wooden block		DAkkS cer	tificate
	KERN	€	KERN	€
1 g - 1 kg	362-96	320,-	962-619	87,-
1 g - 2 kg	362-97	495,-	962-620	105,-
1 g - 5 kg	362-98	670,-	962-621	113,-
1 g - 10 kg	362-99	950,-	962-622	122,-



Individual weights ≤ 50 g



Individual weights 100 g and 200 g



Individual weights ≥ 500 g

Tweezers, weight grips, gloves, dusting brush



Tweezers

to be able to safely grip small test weights

For class	For weight	Length	Version	KERN	€
E1 - M3	1 mg – 200 g	105 mm	Stainless steel with silicone-coated tips	315-243	20,-
E1 - M3	500 g - 2 kg	250 mm	Stainless steel with silicone-coated tips	315-245	65,-
E1 - M3	≤ 5 g	130 mm	2 Stainless steel, curved, high-quality plastic tips	315-246	22,-
E1 - M3	≤ 5 g	136 mm	3 Stainless steel, straight, high quality plastic tips	315-247	22,-
E1 - M3	≤ 200 g	225 mm	Stainless steel, straight, high-quality plastic tips, with a special shape for gripping weights of various shapes and sizes	315-248	36,-
F2 - M3	1 mg – 200 g	100 mm	5 Stainless steel	335-240	18,-
E1 - M3	1 mg – 200 g	100 mm	6 Plastic	315-242	8,70

Weight grip plastic coated

For class	For knob shaped weights	KERN	€
E1 - M3	2 kg	315-273	32,-
E1 - M3	5 kg	315-274	36,-
E1 - M3	10 kg	315-275	41,-
F1 - M3	20 kg	315-276	61





Inot appropriate for cast iron weights



Gloves

Cotton, 1 pair. Help to protect the test weights when being used daily, from grease from fingers, damp etc.

Suitable for test weights up to 2 kg.

11.1	

Gloves

Leather/cotton, 1 pair. Help to protect the test weights when being used daily, from grease from fingers, damp etc.

Ideal for test weights from 2 kg.



Premium gloves

Nylon, 1 pair.

Particularly elastic, one size fits all, with special fingertip coating to ensure a safe grip. Helps to protect the test weights in everyday use from grease from fingers, damp etc.

Ideal for all test weights.

KERN	€
317 291	0 -







Dusting brush to clean the weights

KERN			
318-270			



Bellows for cleaning weights

KERN	€
318-271	9,60



Microfibre cloth for cleaning weights

KERN	€
318-272	6,90

Boxes for individual weights







For weights ≥ 1 kg, OIML class E1 - F1

Box material: Wood, lined, suitable for single weights, KERN No. 307, 316, 317, 326, 327

Wooden box, lined

for single weights E1 - F1

For weights	KERN	€
-	-	-
1 g	317-010-100	30,-
2 g	317-020-100	30,-
5 g	317-030-100	32,-
10 g	317-040-100	30,-
20 g	317-050-100	31,-
50 g	317-060-100	32,-
100 g	317-070-100	35,-
200 g	317-080-100	36,-
500 g	317-090-100	46,-
1 kg	317-110-100	68,-
2 kg	317-120-100	69,-
5 kg	317-130-100	101,-
10 kg	317-140-100	122,-
20 kg	317-150-100	630,-
50 kg	317-160-100	880,-



For weights ≤ 500 g, OIML class F2 - M3



For weights ≥ 1 kg, OIML class F2 - M3

Box material: Wood, not lined, suitable for single weights, KERN No. 337, 347, 357, 367

I not suitable for cast iron weights

Wooden box, not lined

for single weights F2 - M3

For weights	KERN	/4/	€
mg	338-090-200		34,-
1 g	337-010-200		21,-
2 g	337-020-200		17,-
5 g	337-030-200		18,-
10 g	337-040-200		18,-
20 g	337-050-200		18,-
50 g	337-060-200		20,-
100 g	337-070-200		24,-
200 g	337-080-200		25,-
500 g	337-090-200		29,-
1 kg	337-110-200		43,-
2 kg	337-120-200		47,-
5 kg	337-130-200		92,-
10 kg	337-140-200		93,-
20 kg	337-150-200		390,-
50 kg	337-160-200		610,-



For test weights ≥ 10 kg, OIML class F1 - M1

Box material: Wood, lined/not lined, suitable for single weights, KERN No. 327, 337, 347

■ not suitable for cast iron weights

Wooden box, not lined

for test weights F1 - M1

For weights	KERN	/4/	€
10 kg	337-141-200		360,-
20 kg	337-151-200		390,-
50 kg	337-161-200		610,-

Wooden box, lined

for test weights F1 - M1

For weights	KERN	/ /	€
10 kg	337-141-100		340,-
20 kg	337-151-100		370,-
50 kg	337-161-100		570,-



For weights ≤ 5 kg, OIML class E1 – M3

Box material: Aluminium protected, lined, suitable for mg and single weights, KERN No. 307, 308, 316, 317, 318, 326, 327, 328, 337, 338, 347, 348, 357, 367

■ not suitable for cast iron weights

Aluminium protected box, lined

for individual weights, knob and compact shape, class E1 – M3

For weights	KERN	Ш	•
mg	317-009-600		14,-
1 g	317-010-600		14,-
2 g	317-020-600		17,-
5 g	317-030-600		15,-
10 g	317-040-600		15,-
20 g	317-050-600		15,-
50 g	317-060-600		14,-
100 g	317-070-600		14,-
200 g	317-080-600		14,-
500 g	317-090-600		19,-
1 kg	317-110-600		27,-
2 kg	317-120-600		32,-
5 kg	317-130-600		53,-



For weights \leq 10 kg, OIML class E1 - M3

Box material: Aluminium protected, lined, suitable for single weights, KERN No. 307, 316, 317, 326, 327, 337, 347, 357, 367

I not suitable for cast iron weights

Aluminium protected box, lined

for individual weights, knob and compact shape, class E1 - M3

For weights	KERN	-0-	€
10 kg	317-140-600		75,-
20 kg	317-150-600		105,-
50 kg	317-160-600		305,-



For block weight ≥ 5 kg, OIML class F1 - M3

Box material: Aluminium protected, lined, suitable for block weights, KERN No. 326, 336, 346, 356, 366

Aluminium protected box, lined

for individual weights F1 - M3

KERN	€
346-060-600	80,-
346-070-600	104,-
346-080-600	152,-
346-090-600	171,-
	346-060-600 346-070-600 346-080-600

Carrying cases/boxes for individual weight sets

Individual weight sets:

You can create your own "tailor-made" individual weight sets yourself.

 ${\sf KERN\ will\ customise\ your\ own\ personal\ wooden\ box/plastic\ carrying\ case.}$

The largest individual weight which will fit is given in the table.

Sample order:

Your individual weight set (class F1):

1 × 50 g, 2 × 100 g, 1 × 500 g, 2 × 1 kg, 1 × 2 kg.

The correct individual box is KERN No. 313-080-400 (plastic) or

KERN No. 315-070-100 (wood, lined)



Plastic case

for individual weight sets classes E1 – M3, not appropriate for cast iron weights

Largest possible weight	KERN	€
≤ 500 g	313-050-400	166,-
≤ 5 kg	313-080-400	320,-



Wooden case

lined, for individual weight sets classes E1 - F1 * with side handles

Largest possible weight	KERN		€
≤ 200 g	315-040	-100	235,-
≤ 1 kg	315-060	-100	350,-
≤ 2 kg	315-070	-100	405,-
≤ 5 kg*	315-080	-100	510,-
≤ 10 kg*	315-090	-100	560



Wooden case not lined, for individual weight set classes F2 – M3, not appropriate for cast iron weights * with side handles

Largest possible weight	KERN		€
≤ 200 g	335-040	-200	154,-
≤ 500 g	335-050	-200	154,-
≤ 1 kg	335-060	-200	215,-
≤ 2 kg	335-070	-200	225,-
≤ 5 kg*	335-080	-200	340,-
≤ 10 kg*	335-090	-200	330,-

Carrying cases for standard weight sets



Plastic case for weight sets

with standard denomination classes E1 – M3, not appropriate for cast iron weights

Largest possible weight	KERN	€
≤ 500 g	313-052-400	102,-
≤ 5 kg	313-082-400	205,-





Fig. shows 313-010-600

Aluminium protected case for safe storage and transportation under harsh industrial conditions.

Aluminium protected case

for weight sets with standard denomination classes E1 – M2 *no handle **1 front handle ***2 side handles

For weights	For class	KERN	€
1 mg - 500 mg	E1 - M1	313-010-600*	92,-
1 mg - 50 g	E1 - M1	313-020-600*	94,-
1 mg - 100 g	E1 - M1	313-030-600*	103,-
1 mg - 200 g	E1 - M1	313-040-600*	109,-
1 mg - 500 g	E1 - M1	313-050-600*	132,-
1 mg - 1 kg	E1 - M1	313-060-600*	161,-
1 mg - 2 kg	E1 - M1	313-070-600**	189,-
1 mg - 5 kg	E1 - M1	313-080-600***	250,-
1 mg - 10 kg	E1 - M1	313-090-600***	330,-
1 g - 50 g	E1 - M2	314-020-600*	89,-
1 g - 100 g	E1 - M2	314-030-600*	98,-
1 g - 200 g	E1 - M2	314-040-600*	104,-
1 g - 500 g	E1 - M2	314-050-600*	127,-
1 g - 1 kg	E1 - M2	314-060-600*	156,-
1 g - 2 kg	E1 - M2	314-070-600*	184,-
1 g - 5 kg	E1 - M2	314-080-600***	245,-
1 g - 10 kg	E1 - M2	314-090-600***	330,-

Weight containers for rectangular weights or other test weights, stainless steel glass bead blasted, adjusted to OIML class M1

Preconfigured weight containers for testing high-load floor scales, pallet scales, pallet truck scales, crane scales, etc. This can also be used for storing the weights. This means the weight container and the weights can be placed on the balance in one go, saving you time and money. The weight container is adjusted to OIML accuracy class M1. Other OIML accuracy classes are also available, please ask.

Weight of the weight container, OIML class M1	Tol +/- g	Possible equipment, rectangular weights, OIML class M1	Maximum total weight (weight container incl. weights)		Price container weights)
				KERN	€
20 kg	1,0	5 × 20 kg	120 kg	346-022-005	1610,-
40 kg	1,5	8 × 20 kg	200 kg	346-042-008	2070,-
50 kg	2,5	10 × 20 kg	250 kg	346-052-010	2070,-
50 kg	2,5	4 × 50 kg	250 kg	346-055-004	2070,-
50 kg	2,5	9 × 50 kg	500 kg	346-055-009	2070,-
60 kg	3,0	8 × 50 kg and 2 × 20 kg	500 kg	346-065-009	2250,-



Weight of the weight container, OIML class M1	Tol +/- g	Possible equipment, test weights, OIML class M1	Maximum total weight (weight container incl. weights)		Price container weights)
				KERN	€
20 kg	1,0	max. 10 × 10 kg or 5 × 20 kg	120 kg	347-022-005	1610,-
40 kg	2,0	max. 16 × 10 kg or 8 × 20 kg	200 kg	347-042-008	1890,-
50 kg	2,5	max. 20 × 10 kg or 10 × 20 kg	250 kg	347-052-010	2070,-
60 kg	3,0	max. 22 × 20 kg	500 kg	347-062-022	2250,-



Individual weight containers for rectangular weights or other test weights, calibrated to OIML class M1

Individual weight carriers for testing high capacity floor scales, pallet scales, pallet truck scales, crane scales, etc. This can also be used for storing the weights. This means the weight container and the weights can be placed on the scale in one go, saving time and money.

The weight container can be calibrated to OIML accuracy classes M1 - M3.

On request, KERN will make you a "tailor-made" weight carrier to your specifications.

Example:

 3 block weights
 each 50 kg, class M1 = 150 kg

 1 weight container
 each 50 kg, class M1 = 50 kg

 Total
 = 200 kg

Weight of the weight container, OIML class M1		Price
	KERN	€
Individual weight container for rectangular weights	346-000-000	Price on request
Individual weight container for test weights	347-000-000	Price on request



Example illustration

18



DAKKS CALIBRATION SERVICE, VERIFICATION SERVICE

The DAkkS (German accreditation body)

The DAkkS is the national accreditation body of the Federal Republic of Germany. According to Regulation (EC) No. 765/2008 and the Accreditation Body Act (AkkStelleG), the DAkkS acts in the public interest as the sole service provider for accreditation in Germany.

In order to be able to fulfil its sovereign accreditation tasks, the DAkkS was entrusted by the Federal Government. As an entrusted body, the DAkkS is subject to federal supervision.

Only an accredited calibration laboratory can issue a DAkkS calibration certificate. This defines not only the measuring method as well as the measuring result, but also gives information on tracing the test medium to national standards and the relevant uncertainty of measurement.

- > You are certified to ...
 ISO 9001, QS 9000, GLP, GMP, TS16949
- > You need ...
 to control your measuring equipment

Our solution ...

 DAkkS calibration certificate; (traceability, measuring uncertainty, internationally recognised)

KERN - Precision is our business

The KERN calibration laboratory for electronic balances and weights has been accredited by DKD since 1994 and today is one of the most modern and best-equipped DAkkS calibration laboratories for balances, test weights and force measurement in Europe.

Thanks to the high level of automation, we can carry out DAkkS calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Do you have any further requests or questions on this matter? We would be pleased to help you or visit us on the web at **www.kern-lab.com**

DAkkS calibration

Why? DAkkS calibration is always necessary when checking equipment (balance or test weight) is to be used in a QM process (e.g. to ISO 9000ff, GS 9000, TS 16949, VDA 6.1, FDA, GLP, GMP, GMP etc.)

What? Any checking equipment in proper condition can be DAkkS calibrated

How? Determination of accuracy throughout the world by a laboratory which is accredited to DIN EN ISO 17025. Traceability to internationally recognised standards. The DAkkS calibration certificate confirms both the measurement characteristics of the checking equipment and the general requirements for the control of checking equipment.

Where? Internationally recognised – this is monitored by ILAC (International Laboratory Accreditation Cooperation) and e.g.

DAkkS (German calibration service) in Germany

When? The operator control the use of checking equipment and periodic recalibration time intervals themselves

Range of services:

Area accredited by DAkkS:

- DAkkS calibration of balances with a maximum load of up to 50.000 kg
- DAkkS calibration of weights in the range of 1 mg 2.500 kg. Calibrations can be carried out in the following classes: E1, E2, F1, F2, M1, M2, M3
- DAkkS calibration of force gauges and force transducers
- Volume determination for weights of accuracy class E1
- DAkkS calibration of temperature and humidity sensors

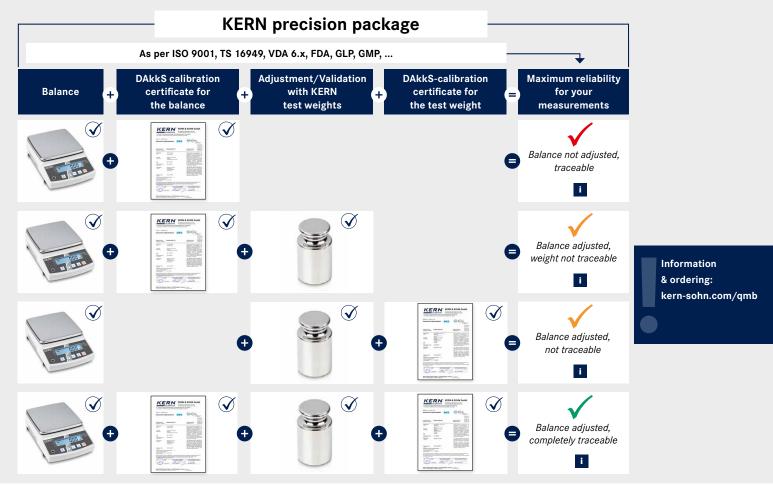
Area offered as factory calibration:

- Measuring of sensitivity (magnetic characteristics)
- Factory calibration in various sizes:
 Force (sensors and measuring devices), hardness (Shore, UCI, Leeb, etc.),
 thickness of coatings and walls, torque wrench testing devices, and
- Conformity assessments and recalibration of balances and weights at the KERN verification point, working closely with the verification authorities.

And on top of all these services, we also offer additional services – see *DAkkS Calibration Service*.

Balance & weight in the quality management system

Do you already use all the modules of the KERN precision package for maximum accuracy and reliability of your balance?



The KERN calibration laboratory (D-K-19408-01-00)

KERN has a highly-automated DAkkS laboratory with accreditation to DIN EN ISO/IEC 17025 in the field of balances, test weights and force measurement. By using the most modern calibration technology with high-end calibration robots in fully air-conditioned laboratories, the measurement uncertainty and process times are reduced to a minimum, and also the quality of the calibration is increased.

As an accredited and certified calibration service provider with decades of experience, KERN offers you an extensive range of services, which will leave no demand unfulfilled. The accreditation applies to the extent specified in the appendix to the certificate D-K-19408-01-00.

We offer the following services:

Balances ► DAkkS calibrat

- ► DAkkS calibration up to 50 t
- ► Minimum sample weight (in use)
- ► Usage accuracy
- ► Adjustment at the location of installation
- ► Certificate of conformity
- ► Equipment qualification:
- > Design qualification (DQ)
- > Installation qualification (IQ)
- > Function qualification (OQ)
- > Performance qualification (PQ)
- > Maintenance qualification (MQ)
- $\blacktriangleright \ \, {\sf Conformity \ assessment/Verification}$

Weights

- ► DAkkS calibration up to 2.5 t (OIML classes E1 – M3)
- ▶ Volume determination for OIML class E1
- Measuring of sensitivity (magnetic characteristics)
- ► Verification

Force measuring devices and force transducers

► DAkkS calibration up to 5 kN

Temperature and humidity sensors

► DAkkS calibration up to 50 °C resp. 75 %

Factory calibration for

- ► Force measuring devices and force transducers ≤ 250 kN
- ► Hardness
- ► Layer thickness
- ► Material thickness
- ► Temperature of moisture analysers

Our commitment to satisfy our customers never stops. Perhaps this is one of the reasons why our roots can perhaps be traced so far back in history. Discover the KERN route to success: fast – competent – reliable – versatile!

The order process

0

You will receive a **reminder** that your test equipment is due or you will generate online a quotation for new or existing test equipment

Q

Submission or collection of your test equipment

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Initial inspection of your goods, to check that they are suitable for calibration, and are complete, etc.

4

You will get a detailed order confirmation

Ġ

Our experts will carry out initial calibration

0

Checked for conformity with required tolerances and if required, any **necessary actions** which arise from this are carried out

Ø

Before these actions are carried out, we will contact you (in so far as no **individual processing** has been agreed with you beforehand)

(3

After your **approval** the necessary actions will be implemented and the calibration will be completed

Ó

After that your **test equipment will be returned** to you without delay, together with the appropriate calibration certificates

ď

We will **monitor your recalibration periods** and will send you a reminder about your next calibration, free of charge

Our service

► Reminder service

The continuous cyclic recalibration of your checking equipment is an integral part of the reliable management of test equipment. You can rely on us to support you, and we will remind you in time, free of charge, when the next recalibration is due. In addition, you have the option of managing your test equipment online by yourself (cf. 1), (10).

► Quote generator

You will be impressed by our price-to-performance ratio. Request a non-binding quotation or create it yourself to suit your specifications at www.kern-lab.com (cf. 1)

► Collection service

We will be pleased to arrange a pick up by our forwarding agent the goods from your premises. You only need to tell us the weight and dimensions of your package and leave the rest to us (cf. 2)

▶ Repair and reconditioning of balances and weights

KERN will get your weights back up to standard, regardless of the manufacturer. Whether it is adjustment, marking, sand blasting or lacquering - the aim here is compliance and long-term stability. Any repairs of balances and instruments which may be necessary can be carried out quickly and easily (cf. (5), (6))

► Individual processing

In order to avoid delays with future orders, we would be pleased to incorporate your individual requirements for future processing of such calibration results. Even for smaller issues such as the printing of calibration certificates (stapling, punching, double-sided) we can work to your requirements (cf. 3).

► Express service and dispatch

If you need a particularly fast service, you can use your DAkkS express service. You will receive your test equipment after only 2 days (cf. ••).

www.kern-lab.com – the central portal for everything you need to know about the extensive KERN calibration services

On our website you will always find the latest news and useful information about testing and measuring devices, calibration, legal metrology and expansions to our range of services. You will also find numerous online services on the website.

Database supported management of test equipment

Information on your test equipment which has been calibrated by us is stored in our database. In this way it is possible to make trend calculations. You will therefore get an overview about the long-term stability and trend behaviour of your test equipment as well as the necessary recalibration period can easily be determined and specified.

Paperless documentation

So there is no administrative effort, we can handle all calibration documentation in a paperless process. From quotation, through to order confirmation, delivery note and invoice right up to calibration certificate, you will receive all documents by e-mail or you can retrieve them online. Would you prefer to receive your certificate or your invoice in paper form, for example? Of course this is not a problem either.

We will send you everything you require by post.

Calibration certificate download

By using our download service you can easily download your calibration certificates as soon as the calibration work is complete and you will have access to them at any time in the future. Simply create your user account on www.kern-lab.com and you will never have to look for your certificates again.



DAkkS Calibration of balances

Any balance will only give correct results if it is checked regularly, i.e. calibrated correctly and adjusted when required. A balance is only a reliable measuring and checking tool if it is calibrated and this calibration is documented. The issued DAkkS calibration certificates are proof of the metrological traceability to national and international standards, as required by the DIN EN ISO 9000 and DIN EN ISO/IEC 17025 standards, amongst others.

KERN recommends a recalibration period of one year. The standard does not give a defined recalibration period. KERN recommends that, with intensive (daily) use, you to recalibrate your balance every 6 months and at normal (weekly) use, every 12 months.



The advantages of using on-site calibration:

- + Calibration on-site at your premises in the field of use
- + Minimisation of measurement uncertainty and guarantee of process accuracy strictly according to guideline EURAMET cg-18
- + No risk of damage during transportation
- + Low downtime
- + Direct and personal contact with the service technician
- + Cross-brand servicing, basic inspection and adjustment by a specialist
- + You tell us when you would like us to come
- + Device training for qualified users



a) KERN on-site calibration (we visit you)

In Germany, KERN has a close-knit network of KERN DAkkS calibration laboratory employees, who can carry out on-site calibration of balances up to 50 tonnes.

This on-site testing service is metrologically recommended, as your balance is in its field of use and can be calibrated without any possible transportation problems.

Lower downtime and personal contact with our expert are the major benefits of this service

Preparatory maintenance work by agreement. Prices for on-site calibration on request.

You tell us when you would like us to come, giving us details of the balances to be tested. Our on-site DAkkS calibration team will then get in touch with you immediately and will discuss the process with you at your premises – it's straight forward and professional.

This KERN calibration service is also independent of the brand.

Please feel free to contact us at Phone +49 7433 9933-400 or E-Mail: testservices-onsite@kern-sohn.com

The advantages of using in-house calibration:

- + Short calibration time: Test time in the laboratory is only four working days
- + Competence: Calibration laboratory, which complies with the highest standards in the area of metrology
- + Independent management of the recalibration calendar for your individual measuring instrument is possible
- + Cross-brand service: Measuring devices from any manufacturer can be calibrated independently
- + Repair: Any necessary repairs can be carried out immediately, if you wish





b) Calibration at the KERN factory (you send your balance to us)

Recommended for new devices and for balances which can be affordably transported, as then there is no need for us to travel to carry out the calibration on-site. Repairs can be carried out at the same time, quickly and in full.

The process would be as follows:

Day 1: Send your balance to the KERN calibration

laboratory in Balingen.

Day 2 to 3: Evaluation and calibration of

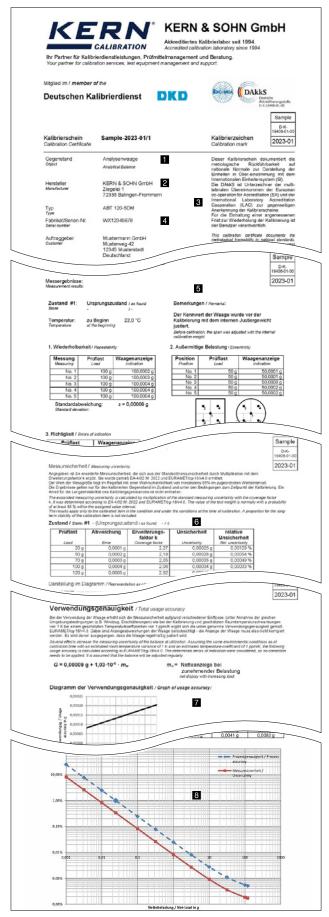
your balance by our specialists.

Day 4: After positive validation, your balance

is returned.

Please feel free to contact us at Phone +49 7433 9933-400 or E-Mail: recalibration-balances@kern-sohn.com





DAkkS calibration certificate for balances (extract)

To get reliable weighing results you need to have calibrated balances. KERN offers you an extensive calibration service for your balances

- You have the choice:

Recalibration

- The recalibration schedule depends on the frequency of use, the conditions of use and the safety requirements.
- We would recommend that you recalibrate your balances every 6 months
 if they are used intensively, and every 12 months with normal use.
- The KERN calibration service is independent of the brand.



Initial calibration and recalibration of balance at the KERN factory

KERN

Price excl. of VAT ex works

		€
Weighing capacity		
Analytical balances		
[Max] ≤ 5 kg	963-101	191,-
[Max] > 5 kg	963-102	240,-
Precision balances/Industrial scales		
$[Max] \le 5 \text{ kg}$	963-127	98,-
[Max] > 5 kg - 50 kg	963-128	118,-
[Max] > 50 kg - 350 kg	963-129	146,-
[Max] > 350 kg - 1500 kg	963-130	205,-
$[Max] > 1500 \text{ kg} - 2900 \text{ kg}^{1)}$	963-131	275,-
[Max] > 2900 kg - 6000 kg ¹⁾	963-132	550,-
[Max] > 6000 kg - 12000 kg ¹⁾	963-133	620,-
Hanging scales/Crane scales		
[Max] ≤ 5 kg	963-127H	98,-
[Max] > 5 kg - 50 kg	963-128H	118,-
[Max] > 50 kg - 350 kg	963-129H	138,-
[Max] > 350 kg - 1500 kg	963-130H	245,-
[Max] > 1500 kg - 2900 kg	963-131H	375,-
[Max] > 2900 kg - 6000 kg	963-132H	620,-
$[Max] > 6000 \text{ kg} - 12000 \text{ kg}^{3)}$	963-133H	870,-
Preparation for recalibration (cleaning, adjustment, function test)	969-003R	24,-
Additional services		
Minimum weight of sample (for details see page 227)	969-103	10,-
Additional measurement points (as part of the) weighing test	963-140	5,50/ measurement point
Additional measurement points (as part of the) repeatability testing	963-140	5,50/ each further measurement point
DAkkS Express service with delivery time 48 hours (only on initial purchase, details see p. 222)	962-116	52,-/ scale
Express shipping: Express supplement for guaranteed delivery on the next working day (if ready for shipment before 12:00 noon)	in GER only	40,-/ parcel

¹⁾ Floor scales & axle load scales only (Price per weighing panel). Please ask for further details.

- Official document
- 2 Item to be calibrated
- 3 Traceability, see the Glossory
- 4 Identification/Applicant
- 5 Metrological component
- 6 Uncertainty of measurement, see the Glossory
- 7 Application accuracy, see the Glossory
- Minimum weight of sample (additional price)

²⁾ On request

³⁾ Processing time 4 working days

⁴⁾ Processing time 15 working days

Minimum weight of sample (in use)

What is the lightest item you can weigh on your balance, while still achieving accurate and reliable weighing results? What exactly is the limit?

The KERN minimum sample weight protocol accounts for the established minimum sample weight of your balance and its location of installation and use with the relative measuring uncertainty. With various safety coefficients and required weighing accuracy (process accuracy), depending on standard or quality-related requirements on the balance being used.

The higher the selected safety coefficient, the higher the safety when using the balance in a particular process.

Typical perturbations when using the balance e.g. small fluctuations in temperature are taken into account. In easily predictable conditions in a professional environment of use, KERN recommends a safety coefficient of 3. For critical processes, a correspondingly higher factor should be selected. The minimum sample weight protocol contains a diagram as well as a table, from which you can ascertain the minimum sample weight for your balance, depending on the process.

Adjustment at the location of installation

Why?

Adjustment at the location of installation is necessary, as the measuring results of balances depend on the local gravitational force (gravitational acceleration) and therefore depend on the location of use. KERN can carry this out just before shipping at the factor, individually to suit the location of installation.

What are the advantages of carrying out adjustment at the location of installation?

- The balance gives reliable measurement results at the location of installation.
- No time-consuming on-site adjustment necessary.
- · You do not need a Service Engineer or any additional weights.
- The balance is ready for immediate use.

Pricing table for adjustment at the location of installation

Weighing capacity	KERN	Price excl. of VAT ex works €
[Max] ≤ 5 kg	961-247	41,-
[Max] > 5 - 50 kg	961-248	50,-
[Max] > 50 - 350 kg	961-249	59,-
[Max] > 350 - 1500 kg	961-250	94,-
[Max] > 1500 - 2900 kg	961-251	125,-
[Max] > 2900 - 6000 kg	961-252	250,-
[Max] > 6000 - 12000 kg	961-253	285,-

For adjustment to the location of installation you need the value for gravitational acceleration at the location of installation, which KERN can calculate using the point of use. The procedure is suitable for balances with a resolution of <60,000 d. For higher resolutions we recommend a balance with an internal adjusting weight or adjustment with a calibrated adjusting weight at the location of installation.

Certificate of conformity

With a certificate of conformity you get a statement about whether the balance meets your defined requirements. In conjunction with a DAkkS calibration certificate it serves as documented proof that the balance fulfils the required process demands. When doing this the process owner for the balance can select from different temperature specifications – depending on its individual requirements:

Conformity evaluation on the basis of the:	KERN		Price excl. of VAT ex works €
Usage accuracy*	relative absolute	969-511 969-512	on request
Calibration results*	relative absolute	969-513 969-514	on request
Measurements as manufacturer or customer specification	Foreign device Customer specifications KERN devices	969-515 969-516 969-517	on request
rolativo = $\%$ / absoluto = α *	as attachment to	the DAkks cal	ibration cortificato

Example for absolute customer tolerance (absolute) (Item no. 969-511):

No.	Tare	Load	Display	Deviation	Uncertainty	Customer tolerance	Conformity ¹⁾
1	0 g	500 g	500,00 g	0,00 g	± 0,013 g	± 0,05 g	$\overline{\checkmark}$
2	0 g	1000 g	1000,00 g	0,00 g	± 0,015 g	± 0,05 g	$\overline{\checkmark}$
3	0 g	1500 g	1500,01 g	0,01 g	± 0,017 g	± 0,05 g	$\overline{\checkmark}$
4	0 g	2000 g	2000,01 g	0,01 g	± 0,020 g	± 0,10 g	$\overline{\checkmark}$
5	0 g	3000 g	3000,02 g	0,02 g	± 0,022 g	± 0,10 g	$\overline{\checkmark}$

¹⁾ Evaluation criteria: |[Deviation]| + [extended measuring uncertainty] ≤ [tolerance]

Documented quality of your balances in the log book

Consistently high product quality requires the use of measuring and test equipment that provides comprehensible, consistent and reproducible results. Hence, quality management systems require that measuring and test equipment produces a detailed traceable description and documentation of calibration results and conformity statements. According to the guiding principle of GMP/GLP: "Work not documented is work not done."

Equipment qualification is documentary evidence that a equipment is suitable for the intended purpose and is working faultlessly. A balance log book as well as our EQS (Equipment Qualification Software) is used to record all activities and results required for the qualification and monitoring of balances during routine operation. This includes the installation and commissioning of the balances, routine tests, maintenance as well as the recording of special events (failures, repairs, change of location).

The structure of the balance log book is based on the qualification process of the balance. The requirements for the qualification system such as DIN EN ISO 9001, DIN EN ISO/IEC 17025, GLP/GMP, VDA must be taken into account. The log book supports the user in his/her daily work with the balance and is meant to serve as necessary evidence during inspections and audits. The responsibility for maintaining the log book and its appropriate use is to be borne by the user.

Our proposal: Count on our support!

KERN offers this qualification concept throughout. Our validation services are carried out on the spot by technicians of our calibration laboratory and comprise among other things: installation, measurement test inclusive DAkks calibration certificate as well as records in your qualification log book of the EQS software (Equipment Qualification Software).

We give you advice already when selecting a new device, for example KERN ADB/ADJ, ALS/ALJ, ABS/ABJ, ACJ, ABT, ABP, PLS/PLJ, PNS/PNJ, EG-N, PBS/PBJ, PES/PEJ, about the options of device qualification on the location of use.

We offer individual calibration and maintenance agreements for the periodically required requalification.

Further information can be found at www.kern-lab.com



Important elements of equipment qualification:



Design qualification (DQ)

With the design qualification, all requirements on which you as a user depend are defined. The purchase decision is made on the basis of the design specifications and the available devices. Careful selection in the DQ can prevent subsequent deficiencies.



Installation qualification (IQ)

All steps to be taken for the installation and commissioning of the equipment are described in detail in the installation qualification. These include among others:

- checking for completeness of delivery and assurance that the delivered equipment meets the required specifications
- a description of the ambient conditions at the place of installation
- proper installation and assurance that the equipment is ready for operation after installation
- documentation of equipment configuration and equipment settings
- · Recording and installation of connected peripherals units



Function qualification (OQ)

The operational qualification describes the metrological test performed for the balance at the place of installation. In the course of this all parameters that define the efficiency of a measurement will be checked. Functional qualification is carried out with the help of a standard operating procedure (SOP) and recorded in a calibration certificate. The OQ must be carried out by trained staff with the help of qualified aids (such as certified weights that are traceable to an approved standard). Briefing / training of users must be assured and recorded in the OQ.



Performance qualification (PQ)

The PQ represents documented evidence that the balance or weighing system functions in the selected application as intended. This will be assured by a qualification test of the equipment under real conditions with respect to its surroundings and the problem definition (such as traceable data transmission).



Maintenance qualification (MQ)

The periodical maintenance, cleaning work and complete metrological test of the balance/weighing system is documented in the MQ by a trained authorised engineer. Maintenance is carried out with the help of a maintenance schedule. The maintenance times are determined by you. We are happy to support you with a maintenance contract for the entire organisation of your measuring system.



If you are interested in a training for equipment qualification, please feel free to contact us

at +49 7433 9933-400 or testservices-onsite@kern-sohn.com



Nennwert nominal value	Kennzeichnung marking	konventioneller Wägewert conventional mass	Unsicherheit k=2 uncertainty	Fehlergrenze max. perm. error	Klasse*
1 mg		1 mg +0,0010 mg	0,0020 mg	± 0,0060 mg	E2 ✓
2 mg		2 mg +0,0005 mg	0,0020 mg	± 0,0060 mg	E2 ✓
2 mg		2 mg +0,0016 mg	0,0020 mg	± 0,0060 mg	E2 ✓
5 mg		5 mg +0,0010 mg	0,0020 mg	± 0,0060 mg	E2 ✓
10 mg		10 mg +0,0009 mg	0,0020 mg	± 0,0080 mg	E2 ✓
20 mg	7/1	20 mg - 0,001 mg	0,003 mg	± 0,010 mg	E2 🗸
20 mg		20 mg +0,001 mg	0,003 mg	± 0,010 mg	E2 ✓
50 mg		50 mg +0,001 mg	0,004 mg	± 0,012 mg	E2 ✓
100 mg		100 mg +0,001 mg	0,005 mg	± 0,016 mg	E2 ✓
200 mg		200 mg +0,002 mg	0.006 mg	± 0,020 mg	E2 √
200 mg	•	200 mg +0,003 mg	0,006 mg	± 0,020 mg	E2 ✓
500 mg		500 mg + 0,005 mg	0,008 mg	± 0,025 mg	E2 ✓
1 g		1 g +0,002 mg	0,010 mg	± 0,030 mg	E2 ✓
2 g		2 g +0,002 mg	0,013 mg	± 0,040 mg	E2 ✓
2 g		2 g +0,002 mg	0,013 mg	± 0,040 mg	E2 √
5 g		5 g +0,010 mg	0,016 mg	± 0,050 mg	E2 ✓
10 g		10 g -0,007 mg	0,020 mg	± 0,060 mg	E2 ✓
20 g		20 g +0,005 mg	0,026 mg	± 0,080 mg	E2 ✓
20 g		20 g +0,015 mg	0.026 mg	± 0,080 mg	E2 √
50 g		50 g +0,02 mg	0.03 mg	± 0.10 mg	E2 ✓
100 g		100 g +0,01 mg	0,05 mg	± 0,16 mg	E2 ✓
200 g		200 g +0,05 mg	0,10 mg	± 0,30 mg	E2 ✓
200 g		200 g -0,00 mg	0,10 mg	± 0,30 mg	E2 ✓
500 g		500 g +0,10 mg	0,26 mg	± 0,80 mg	E2 ✓
1 kg		1 kg +0,1 mg	0,5 mg	± 1,6 mg	E2 ✓
den konvention The assessment	onellen Wägewert. of the class / the max, perm, e e Dokumentvariable v	ergrenze (wenn keine Klasser rov (if no class assessment is given) erfügbar.: [Fehler! e Dokumentvariable verfüg	only refers to the convent Keine Dokumentvi		1 5

DAkkS calibration certificate for test weights (extract).

For more details on our calibration service and other useful information, please see the internet at www.kern-lab.com

- Official document
- 2 Item to be calibrated
- 3 Traceability, see the Glossory
- 4 Identification/Applicant
- 5 Environmental conditions
- 6 Metrological component
- 7 Conventional mass
- Uncertainty of measurement, see the Glossory

Traceable KERN test weights - Calibration of test weights

Calibrated measuring equipment requires calibrated checking equipment.

For balances, these are calibrated test weights, also called "standard weights".

KERN will calibrate your test weights

- In all classes with permissible error limits E1-M3 according to OIML R111:2004 (for tolerance tables, see page 180), in sizes 1 mg to 2500 kg.
- · With free nominal value
- · Newton (N)
- · Independent of design (special designs)

The advantages of using the KERN in-house calibration

You send your test weights to us.

- · Excellent price performance ratio
- · The quickest processing time
- DAkkS standard service: 4 working days
- DAkkS express service: 48 hrs (new weights)
- The most modern calibration methods with robot controlled comparators allow the most accurate calibration results and fastest throughput time
- · KERN DAkkS calibration certificates are internationally recognised
- · A calibration service which is independent of the brand
- · KERN also reconditions existing customer weights (e.g. cleaning or readjustment)
- On request, we can also provide a pick-up and collection service with our parcel service

The advantages of using the KERN on-site calibration

We visit you.

We would be pleased to visit you within Germany and carry out the calibration of your reference standards to OIML classes M1–M3, 10 kg–2500 kg with permissible error limits, using our mobile MACOS system. Minimized downtime of your checking equipment and direct contact with our expert are the major benefits of this service. Price on request.

Recalibration

- The recalibration schedule depends on the frequency of use, the conditions of use and the safety requirements
- In terms of standardisation, no particular recalibration interval is specified
- We would recommend that you recalibrate your test weights every six months
 if they are used intensively, and every 12 months with normal use
- We would be pleased to monitor your recalibration schedule

Class acc.

E1²⁾
with volume determination

E1¹⁾ without volume determination

E21)

F1/F2¹⁾
* F2 only

M1/M2/M3¹⁾

	with volume	determination	determination	n			* F2 only			
Nominal value $\ lack \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	KERN	Price € excl. of VAT ex works	KERN	Price € excl. of VAT ex works	KERN	Price € excl. of VAT ex works	KERN	Price € excl. of VAT ex works	KERN	Price € excl. of VAT ex works
1 mg	_	_	962-251R	77,-	962-351R	34,-	962-451R	22,-	962-651R	18,-
2 mg	-	=	962-252R	77,-	962-352R	34,-	962-452R	22,-	962-652R	18,-
5 mg	_	_	962-253R	77,-	962-353R	34,-	962-453R	22,-	962-653R	18,-
10 mg	_	-	962-254R	77,-	962-354R	34,-	962-454R	22,-	962-654R	18,-
20 mg	_	_	962-255R	77,-	962-355R	34,-	962-455R	22,-	962-655R	18,-
50 mg	_	=	962-256R	77,-	962-356R	34,-	962-456R	22,-	962-656R	18,-
100 mg	-	-	962-257R	77,-	962-357R	34,-	962-457R	22,-	962-657R	18,-
200 mg	-	=	962-258R	77,-	962-358R	34,-	962-458R	22,-	962-658R	18,-
500 mg	-	_	962-259R	77,-	962-359R	34,-	962-459R	22,-	962-659R	18,-
1 g	963-231	245,-	962-231R	77,-	962-331R	34,-	962-431R	22,-	962-631R	18,-
2 g	963-232	245,-	962-232R	77,-	962-332R	34,-	962-432R	22,-	962-632R	18,-
5 g	963-233	245,-	962-233R	77,-	962-333R	34,-	962-433R	22,-	962-633R	18,-
10 g	963-234	245,-	962-234R	77,-	962-334R	34,-	962-434R	22,-	962-634R	18,-
20 g	963-235	245,-	962-235R	77,-	962-335R	34,-	962-435R	22,-	962-635R	18,-
50 g	963-236	245,-	962-236R	77,-	962-336R	34,-	962-436R	22,-	962-636R	18,-
100 g	963-237	245,-	962-237R	77,-	962-337R	43,-	962-437R	25,-	962-637R	20,-
200 g	963-238	245,-	962-238R	77,-	962-338R	43,-	962-438R	25,-	962-638R	20,-
500 g	963-239	245,-	962-239R	77,-	962-339R	43,-	962-439R	25,-	962-639R	20,-
1 kg	963-241	245,-	962-241R	77,-	962-341R	43,-	962-441R	25,-	962-641R	20,-
2 kg	963-242	550,-	962-242R	95,-	962-342R	52,-	962-442R	29,-	962-642R	21,-
5 kg	963-243	550,-	962-243R	95,-	962-343R	52,-	962-443R	29,-	962-643R	21,-
10 kg	963-244	550,-	962-244R	95,-	962-344R	52,-	962-444R	29,-	962-644R	21,-
20 kg	963-245	1280,-	962-245R	720,-	962-345R	68,-	962-445R	35,-	962-645R	27,-
50 kg	963-246	1500,-	962-246R	800,-	962-346R	79,-	962-446R	48,-	962-646R	29,-
100 kg	_	- '	_		_		962-591R*	143,-	962-691R	77,-
200 kg	_	_	_	_	_	_	962-592R*	143,-	962-692R	77,-
500 kg	_	_	_	_	_	_	962-593R*	143,-	962-693R	77,-
1000 kg	_	-	_	_	_	-	_		962-694R	169,-
2000 kg	-	_	_	_	_	_	-	_	962-695R	310,-
1 mg-500 mg	_	-	962-250R	500,-	962-350R	235,-	962-450R	124,-	962-650R	77,-
1 mg-50 g	963-201	1400,-	962-201R	820,-	962-301R	385,-	962-401R	205,-	962-601R	132,-
1 mg-100 g	963-202	1520,-	962-202R	850,-	962-302R	425,-	962-402R	220,-	962-602R	138,-
1 mg-200 g	963-203	1750,-	962-203R	930,-	962-303R	485,-	962-403R	245,-	962-603R	155,-
1 mg-500 g	963-204	1860,-	962-204R	970,-	962-304R	520,-	962-404R	255,-	962-604R	162,-
1 mg-1 kg	963-205	1980,-	962-205R	1050,-	962-305R	560,-	962-405R	270,-	962-605R	170,-
1 mg-2 kg	963-206	2580,-	962-206R	1110,-	962-306R	610,-	962-406R	310,-	962-606R	187-
1 mg-5 kg	963-207	2890,-	962-207R	1160,-	962-307R	650,-	962-407R	325,-	962-607R	198,-
1 mg-10 kg	963-208	3290,-	962-208R	1200,-	962-308R	700	962-408R	355,-	962-608R	205,-
1 g-50 g	963-215	1010,-	962-215R	365,-	962-315R	159,-	962-415R	83,-	962-615R	51,-
1 g-100 g	963-216	1100,-	962-216R	395,-	962-316R	190,-	962-416R	95,-	962-616R	61,-
1 g-200 g	963-217	1340,-	962-217R	475,-	962-317R	250,-	962-417R	121,-	962-617R	75,-
1 g-500 g	963-218	1460,-	962-218R	520,-	962-318R	290	962-418R	135	962-618R	85,-
1 g-1 kg	963-219	1600,-	962-219R	560,-	962-319R	320,-	962-419R	148,-	962-619R	91,-
1 g-2 kg	963-220	2240,-	962-220R	640,-	962-320R	395,-	962-420R	186,-	962-620R	110,-
1 g-5 kg	963-221	2620,-	962-221R	660,-	962-321R	445,-	962-421R	205,-	962-621R	119,-
1 g-10 kg	963-222	3060,-	962-222R	720,-	962-322R	480,-	962-422R	225,-	962-622R	128,-
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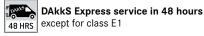
¹⁾ Processing time 4 working days, ²⁾ Processing time 15 working days, ¹⁾ Preparation of reverification of balances, 969-006R, € 25,-

Additional costs for preparation, overhaul and adjustment before the calibration	KERN	Price excl. of VAT ex works €
Preparation of weights (e.g. cleaning, etc.)		
Single weight	969-001R	5,-
Weight set	969-002R	20,-
Subsequent services are carried out after confirmation		
Continued overhaul of weights (e.g. wet-cleaning, markings, repair, special packaging, adjustment E1 (DAkkS only), E2)	969-005R	T & M basis
Adjustment, per weight only available for weights with adjustment chamber (F1–M3)	969-010R	15,-
Second calibration after adjustment or substitution, per weight		
Class E1	969-210R	63,-
Class E1 incl. volume determination	969-211R	230,-
Class E2	969-310R	30,-
Class F1/F2	969-410R	20,-
Class M1-M3	969-610R	16,-
Testing of magnetic properties according to OIML R111:2004, per weight	961-115R	15,-
Calibration of NON-OIML test weights, additional price per weight	-	8,-

KERN DAkkS Express Service*1

DAkkS standard service Class E2-M3	4 working days
DAkkS standard service Class E1, 1 mg-500 mg, and recalibration 1 g-10 kg with a known volume	10 working days
Class E1, ≥ 1 g, incl. volume determination (new weights)	15 working days

¹ The delivery time for recalibrations can vary depending on the order situation as well as in case of queries, bottlenecks, etc.



- Urgent order is received at KERN by 12:00 noon at the latest
- Ready for shipping at KERN within two working days,
- Return by standard parcel service or express shipping (Costs and processing time on request)
- Additional cost for DAkkS Express Service, for each KERN test weight KERN KERN 962-115 € 21,-
- For Express shipping, see page 226

Class	acc		→
CIRAL	D 4 4 .	4.000	

► E2¹⁾ with verification certificate

F1¹⁾ with verification certificate

 $\mathbf{M}\,\mathbf{1}^{\,\mathrm{1}\!\mathrm{)}}$ with verification certificate

KERN verification delivery time

				certificate certificate				certificate	OIML R111:2004
orking day	/ice 6 w	Standard verification serv	Price € excl. of VAT ex works	KERN	Price € excl. of VAT ex works	KERN	Price € excl. of VAT ex works	KERN	Nominal value 🔱
			32,-	952-651	46,-	952-451	54,-	952-351	1 mg
			32,-	952-652	46,-	952-452	54,-	952-352	2 mg
			32,-	952-653	46,-	952-453	54,-	952-353	5 mg
			32,-	952-654	46,-	952-454	54,-	952-354	10 mg
Price	KERN	Additional costs	32,-	952-655	46,-	952-455	54,-	952-355	20 mg
xcl. of V		for preparation, overhaul	32,-	952-656	46,-	952-456	54,-	952-356	50 mg
ex works €		and adjustment before	32,-	952-657	46,-	952-457	54,-	952-357	100 mg
		the verification	32,-	952-658	46,-	952-458	54,-	952-358	200 mg
			32,-	952-659	46,-	952-459	54,-	952-359	500 mg
		Donata a facilità (a	32,-	952-631	46,-	952-431	54,-	952-331	1 g
tc.)	.g. cleaning, e	Preparation of weights (e.	32,-	952-632	46,-	952-432	54,-	952-332	2 g
			32,-	952-633	46,-	952-433	54,-	952-333	5 g
5,-	969-008R	Single weight	32,-	952-634	46,-	952-434	54,-	952-334	10 g
or 19,-	0/0.000	Mainta and	32,-	952-635	46,-	952-435	54,-	952-335	20 g
19,-	969-009R	Weight set	32,-	952-636	46,-	952-436	54,-	952-336	50 g
ter	carried out a	Subsequent services are	32,-	952-637	46,-	952-437	60,-	952-337	100 g
		confirmation	32,-	952-638	48,-	952-438	60,-	952-338	200 g
			32,-	952-639	48,-	952-439	60,-	952-339	500 g
T 0 14		Continued available	32,-	952-641	48,-	952-441	60,-	952-341	1 kg
		Continued overhaul	34,-	952-642	54,-	952-442	68,-	952-342	2 kg
		of weights	34,-	952-643	54,-	952-443	68,-	952-343	5 kg
T & M	969-005R	(e.g. wet-cleaning,	42,-	952-644	54,-	952-444	68,-	952-344	10 kg
basis		markings, repair,	48,-	952-645	56,-	952-445	79,-	952-345	20 kg
		special packaging,	50,-	952-646	67,-	952-446	-	-	50 kg
		adjustment E2)	88,-	952-650	141,-	952-450	270,-	952-350	1 mg-500 mg
			147,-	952-601	230,-	952-401	440,-	952-301	1 mg-50 g
			156,-	952-602	250,-	952-402	480,-	952-302	1 mg-100 g
			174,-	952-603	280,-	952-403	540,-	952-303	1 mg-200 g
		Adjustment, per weight	183,-	952-604	290,-	952-404	580,-	952-304	1 mg-500 g
	0/00/05	only available for weights	192,-	952-605	305,-	952-405	600,-	952-305	1 mg-1 kg
15,-	969-010R	with adjustment chamber	210,-	952-606	345,-	952-406	690,-	952-306	1 mg-2 kg
		(F1/F2 – M1)	225,-	952-607	375,-	952-407	750,-	952-307	1 mg-5 kg
		, ,	230,-	952-608	400,-	952-408	790,-	952-308	1 mg-10 kg
			67,-	952-615	102,-	952-415	176,-	952-315	1 g-50 g
			71,-	952-616	108,-	952-416	210,-	952-316	1 g-100 g
stitution,	ent or substi	Verification after adjustm	85,-	952-617	138,-	952-417	275,-	952-317	1 g-200 g
		per weight	94,-	952-618	152,-	952-418	315,-	952-318	1 g-500 g
30,-	969-310R	Class E2	104,-	952-619	167,-	952-419	340,-	952-319	1 g-1 kg
			124,-	952-620	210,-	952-420	425,-	952-320	1 g-2 kg
20,-	969-410R	Class F1/F2	135,-	952-621	230,-	952-421	470,-	952-321	1 g-5 kg
	969-610R	Class M1	145,-	952-622	255,-	952-422	520,-	952-322	1 g-10 kg

Verification prices for balances	Reverification	Price excl. of VAT
		ex works
	KERN	€
Accuracy class I (precision balances) 1)		
$[Max] \le 5 \text{ kg}^{-1}$	950-101R	235,-
$[Max] > 5 kg^{-1}$	950-102R	305,-
Accuracy class II (precision balances) 1)		
$[Max] \le 5 \text{ kg}^{-1}$	950-116R	120,-
$[Max] > 5 kg - 50 kg^{-1}$	950-117R	146,-
$[Max] > 50 \text{ kg} - 350 \text{ kg}^{-1}$	950-118R	225,-
Accuracy class III-IV 1)		
Bench scales and industrial scales (excl. crane scales)		
$[Max] \le 5 \text{ kg}^{-1}$	950-127R	114,-
$[Max] > 5 kg - 50 kg^{-1}$	950-128R	114,-
$[Max] > 50 \text{ kg} - 350 \text{ kg}^{-1}$	950-129R	184,-
$[Max] > 350 \text{ kg} - 1500 \text{ kg}^{-1}$	950-130R	270,-
[Max] > 1500 kg - 2900 kg ¹⁾	950-131R	375,-
$[Max] > 2900 \text{ kg} - 6000 \text{ kg}^{-1}$	950-132R	580,-
Crane scales		
$[Max] > 50 \text{ kg} - 350 \text{ kg}^{-1}$	950-129HR	200,-
$[Max] > 350 \text{ kg} - 1500 \text{ kg}^{-1}$	950-130HR	330,-
[Max] > 1500 kg - 2900 kg ¹⁾	950-131HR	480,-
[Max] > 2900 kg - 6000 kg ¹⁾	950-132HR	720,-
[Max] > 6000 kg - 12000 kg ¹⁾	950-133HR	1160,-

¹⁾ Processing time 4 working days, ²⁾ Processing time 15 working days, ¹⁾ Preparation of reverification of balances, 969-006R, € 25,-

Accredited calibration with DAkkS calibration certificate for force gauges

The KERN calibration laboratory is at your side when you need to calibrate according to DAkkS. From the transducer to the full measuring chain, we are happy to take care of traceable calibration of your test equipment for you.

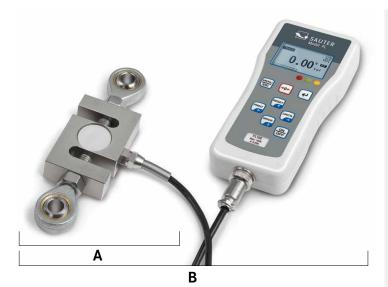
Our accreditation includes the calibration of tensile and pressure force up to 5 kN according to the standards DIN EN ISO 376 and DKD-R 3-3, each with the Newton (N) display unit for a complete measuring chain (situation A) or voltage ratio/transmission coefficient (mV/V, situation B).

Below you will find a comparison of which standard meets which criteria:

Comparison of DIN EN ISO 376 and DKD-R 3-3

	ISO 376	DKD-R 3-3	
Standardization	ISO standard (internationally standardized)	Standard of the DKD (Germany)	
Measuring equipment	Force transducers and complete measuring chains	Force transducers and complete measuring chains	
Area of application	Specifically force gauges for the testing of testing equipment	General force gauges	
Number of power stages	8	5	
Classification/Assessment	Classification in classes 00; 0,5; 1 and 2	None in standard	
Test sequences	Fixed procedure	Sequences A, B, C, D possible Standard is sequence A B, C and D are reduced sequences, relevant previous kno edge is necessary	
Summary	Higher-quality calibration, as 8 force levels are calibrated	High-quality calibration, reduced sequences with less effort possible	

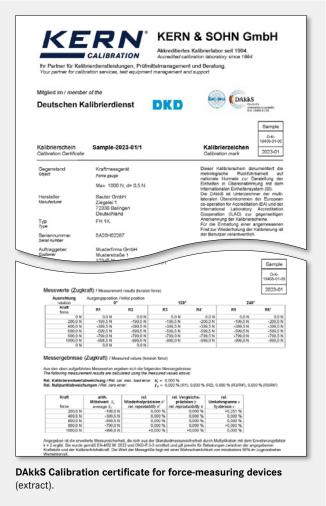
We can offer you a calibration solution for the following situations:



Situation A: Separate force transducer, display unit mV/V Situation B: Complete force gauge (N), consisting of transducer, amplifier and display, display unit N

lacktriangle See also tables, right side

You can find further information on this topic at: www.kern-lab.com



Prices for DAkkS calibration of force gauges and force transducers

Situation A: Force transducer (voltage ratio, in mV/V) $^{\star\,1,2}$

ISO 376 (8 stages)		DKD-R 3-3 (5 stages, sequence A)			
KERN	Measuring range	Price € ex works excl. of VAT	KERN	Measuring range	Price € ex works excl. of VAT
Tensile force:	1		,		
963-161IV (R)	≤ 500 N	240,-	963-161V (R)	≤ 500 N	225,-
963-162IV (R)	≤ 2 kN	285,-	963-162V (R)	≤ 2 kN	265,-
963-163IV (R)	≤ 5 kN	370,-	963-163V (R)	≤ 5 kN	345,-
Compression for	ce:				
963-261IV (R)	≤ 500 N	240,-	963-261V (R)	≤ 500 N	225,-
963-262IV (R)	≤ 2 kN	285,-	963-262V (R)	≤ 2 kN	265,-
963-263IV (R)	≤ 5 kN	370,-	963-263V (R)	≤ 5 kN	345,-
Tensile and Com	pression force:				
963-361IV (R)	≤ 500 N	400,-	963-361V (R)	≤ 500 N	370,-
963-362IV (R)	≤ 2 kN	475,-	963-362V (R)	≤ 2 kN	445,-
963-363IV (R)	≤ 5 kN	640,-	963-363V (R)	≤ 5 kN	580,-

Situation B: Complete force gauge (in N)*2

ISO 376 (8 stages)			DKD-R 3-3 (5 stages, sequence A)		
KERN	Measuring range	Price € ex works excl. of VAT	KERN	Measuring range	Price € ex works excl. of VAT
Tensile force:	,				
963-161I (R)	≤ 500 N	178,-	963-161 (R)	≤ 500 N	178,-
963-162I (R)	≤ 2 kN	240,-	963-162 (R)	≤ 2 kN	215,-
963-163I (R)	≤ 5 kN	330,-	963-163 (R)	≤ 5 kN	300,-
Compression for	ce:				•
963-261I (R)	≤ 500 N	197,-	963-261 (R)	≤ 500 N	178,-
963-262I (R)	≤ 2 kN	240,-	963-262 (R)	≤ 2 kN	215,-
963-263I (R)	≤ 5 kN	330,-	963-263 (R)	≤ 5 kN	300,-
Tensile and Com	pression force:				•
963-361I (R)	≤ 500 N	355,-	963-361 (R)	≤ 500 N	325,-
963-362I (R)	≤ 2 kN	440,-	963-362 (R)	≤ 2 kN	400,-
963-363I (R)	≤ 5 kN	590,-	963-363 (R)	≤ 5 kN	530,-

Factory calibration for force

This is not an accredited calibration (no proof of metrological traceability).

Situation A: Force transducer (voltage ratio, in mV/V) $^{\star\,1,2}$

Situation B: Complete force gauge (in N) $^{\star 2}$

KERN	Measuring range	Price € ex works excl. of VAT	KERN	Measuring range	Price € ex works excl. of VAT
Tensile force:					
961-161V (R)	≤ 500 N	225,-	961-161 (R)	≤ 500 N	178,-
961-162V (R)	≤ 2 kN	265,-	961-162 (R)	≤ 2 kN	215,-
961-163V (R)	≤ 5 kN	345,-	961-163 (R)	≤ 5 kN	300,-
961-164V (R)	≤ 20 kN	440,-	961-164 (R)	≤ 20 kN	390,-
961-165V (R)	≤ 50 kN	440,-	961-165 (R)	≤ 50 kN	390,-
961-166V (R)	≤ 250 kN	470,-	961-166 (R)	≤ 250 kN	435,-
Compression force:					
961-261V (R)	≤ 500 N	225,-	961-261 (R)	≤ 500 N	178,-
961-262V (R)	≤ 2 kN	265,-	961-262 (R)	≤ 2 kN	215,-
961-263V (R)	≤ 5 kN	345,-	961-263 (R)	≤ 5 kN	300,-
961-264V (R)	≤ 20 kN	440,-	961-264 (R)	≤ 20 kN	390,-
961-265V (R)	≤ 50 kN	440,-	961-265 (R)	≤ 50 kN	390,-
961-266V (R)	≤ 250 kN	470,-	961-266 (R)	≤ 250 kN	435,-
Tensile and Compre	ssion force:				
961-361V (R)	≤ 500 N	370,-	961-361 (R)	≤ 500 N	325,-
961-362V (R)	≤ 2 kN	445,-	961-362 (R)	≤ 2 kN	400,-
961-363V (R)	≤ 5 kN	580,-	961-363 (R)	≤ 5 kN	530,-
961-364V (R)	≤ 20 kN	630,-	961-364 (R)	≤ 20 kN	580,-
961-365V (R)	≤ 50 kN	630,-	961-365 (R)	≤ 50 kN	580,-
961-366V (R)	≤ 250 kN	690,-	961-366 (R)	≤ 250 kN	640,-

⁽R): Recalibration

For each force gauge without interface or from other manufacturers we charge a surcharge of \in 10,- for the additional effort.

^{*1} Compatibility with our amplifiers required

^{*2} Installation in our measuring equipment required

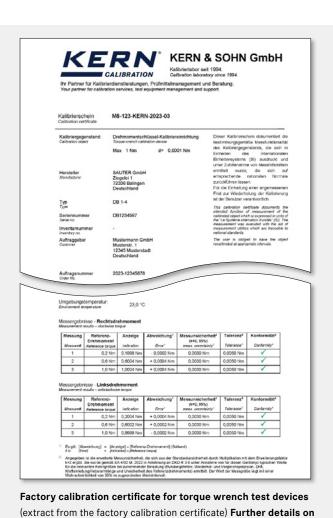
Factory calibration certificates

As DAkkS calibration certificates cannot be offered for all measuring devices or measurement sizes, or where it is not customary, we then offer factory calibration certificates. This is not an accredited calibration (no proof of metrological traceability). These calibration certificates meet international standards and are particularly suitable as proof of exacting calibration in the monitoring of your checking equipment, for example:

- Mechanical balances (spring balances, etc.)
- Force-measuring devices up to 250 kN (see also page 221)
- Measuring devices for layer thickness 0 μm 2000 μm
- · Hardness testing devices in accordance with Leeb tests
- Ultrasonic material thickness testing device 25 mm 300 mm

We carry out calibrations independent of brand. In order to avoid any unnecessary delays when processing your order, please send us the technical documents and necessary accessories with the checking device. Calibration time 4 working days.

For up-to-date information on test services for further measuring variables please see p. 231 or visit our website www.kern-lab.com



KERN	Measuring device	Measuring range	Price excl. of VAT ex works €					
Factory calibr	Factory calibration							
961-110	Coating thickness	≤ 2000 µm F or N	159,-					
961-112	Coating thickness	≤ 2000 µm FN	225,-					
961-113	Wall thickness (ultra sound)	≤ 300 mm (in stainless steel)	159,-					
961-114	Wall thickness (Test blocks)	≤ 300 mm	198,-					
961-170	Hardness comparison plate (Shore)	For sets up to 7 plates	126,-					
961-131	Hardness tester (Leeb)	400 – 800 HLD	159,-					
961-132	Hardness comparison plate (Leeb)	Hardness comparison plate (for Leeb durometer)	159,-					
961-270	Hardness (UCI)	200 - 800 HV	345,-					
961-150	Length	≤ 300 mm	159,-					
961-190	Light	≤ 200000 lx	308,-					
961-100	Mechanical balances/ spring balances	≤ 5 kg	94,-					
961-101	Mechanical balances/ spring balances	> 5 - 50 kg	117,-					
961-102	Mechanical balances/ spring balances	> 50 - 350 kg	139,-					
961-103	Mechanical balances/ spring balances	> 350 - 1500 kg	215,-					
961-102K	Digital dynamometer KERN MAP	≤ 130 kg	159,-					
961-120 (R)	Torque wrench test devices	1 Nm - 200 Nm	225,-					
964-305	Temperature calibration for moisture analyzer*		174,-					
Additional services								
962-116	Express service with 48 hour delivery		52,-/ instrument					

(R): Recalibration

For each force gauge without interface or from other manufacturers we charge a surcharge of \in 10,- for the additional effort.

*Calibration available for the following models: DAB 100-3, DAB 200-2, DBS 60-3, DLB 160-3A, DLT 100-3N, MLS 50-3D, MLS 50-3C, MLB 50-3C, MLB 50-3N, MLB 50-3, MLS 50-3.

the internet at www.kern-lab.com

Δ

Accuracy classes for test weights

E. F. M ▶ Error limit classes

Adjusting of measurement equipment

Precise setting of a measurement value via a professional intervention in the measurement system.

Adjusting the weighing range of a balance



Either with the external test weight via the adjusting program CAL, or with the internal automatic adjustment resp. adjusting switch. It is necessary with variations in temperature, a change of environmental conditions, change of location, etc. Recommended as a daily check routine.

Alibi memory

For weighings where verification is mandatory, and which are to be analysed and processed by a PC (e.g. printing out a packing list using a PC instead of a printer connected directly to the balance) electronic archiving is required by the metrological authorities by a verifiable data memory which cannot be manipulated.

Alibi memories from KERN fulfil this requirement. They are for paperless archiving of weighing results. For KERN products the alibi memory is fitted inside the balance, right between where the weight is determined and the output to the PC.

All data transferred to the PC is stored with date, time and all important weights for at least three months. These stored data strings can be displayed on the balance at any time. The data in the alibi memory can be deleted, but not changed.

Application accuracy

Allowance for measuring uncertainty during practical use of a balance. Is given in the appendix to the DKD calibration certificate.

ATEX

Derived from **AT**mosphère **EX**plosibles. (explosive atmosphere). A synonym for EU guidelines, which controls the quality and use of equipment in hazardous industrial environments, where there is explosion danger, e.g. by handling of flammable substances, which are present in high concentrations in the form of gas, mist, vapour or dust. Therefore see also directives 2014/34/EU as well as 1999/92/EU.



Balances which are verified / not approved for verification

Metrologically almost identical. For verified balances certain details are regulated by law, e.g. software changes and additional markings.



CAL

Adjusting the balance is triggered with an external test weight by using the CAL key on the key pad or on the touch display of the display device or the CAL menu option. This will guarantee the consistent high accuracy of the balance.

Calibration of measurement equipment

Determination of the precision of a measurement value without intervention in the measurement system. Example: to check a balance you load a **test weight** upon it. The term "Calibrating" was formerly also used for **Adjusting**.

Calibration Certificate DKD/DAkkS



See product group 18 "Calibration service"

Calibration or verification





ion

DAkkS-Calibration is possible for every balance in perfect condition. DAkkS calibration (DKD) is a private service monitored by the state for ensuring high quality requirements according to ISO 9000ff and others, e.g. in production or research. Verifying (conformity assessment) is only possible for type-approved balances marked with the green M Verification

Commercial error limit

Permitted tolerance (plus and minus) of measuring devices where verification is mandatory when used within their verification validity period. This tolerance is double the permissible error limit, in so far as this is not specified otherwise in the Weights and Measures Act).

Conformity assessment

Procedure for confirming warranted characteristics in accordance with recognised rules. For balances this relates to verification.

Conformity declaration from the manufacturer

The manufacturer declares that the product fulfils the applicable EU directives. With electronic balances this is always in conjunction with the CE mark.

Control of measuring equipment in the QM system in conjunction with quality standards

An organisation certified to a quality standard such as DIN EN ISO 9001 ff. e.g. a production plant is obliged to adhere to a defined quality standard within the framework of its quality management system.

To do this, it is imperative to have a measurement equipment which is working accurately. Chapter 7.1.5 "Resources for monitoring and measuring" of DIN EN ISO 9001:2015-11 states that measuring equipment must be calibrated at defined intervals and before use. The measurement devices and measurement standards needed to do this must:

- be traced back to international or national standards.
(► Traceability to the National Standard)

- their uncertainty of measurement must be known
- they must be marked with a clear identification
- the test must be documented

The ► *DAkkS calibration (DKD)* fulfils all these requirements.

Conventional mass of weights

The problem is the air movement, which makes the weight appear lighter. In order to avoid this "distortion" in daily use, all weights are adjusted to the unit specifications given in R111, e.g. it is accepted that: material density of the weights is 8000 kg/m³, air density is 1.2 kg/m³ and measuring temperature is 20° C.

Counting resolution

The counting resolution is calculated in points from the ratio of the weighing range [Max] divided by the smallest part weight. It is a statement of counting accuracy.



DAkkS = German accreditation authority

► Calibration Certificate DKD/DAkkS
See product group 18 "Calibration service"

Data interface



To connect the balance to a printer, PC, network or a second balance. Typical interfaces are, for example, RS-232, RS-485, USB, Bluetooth, LAN, Digital I/O, DUAL, LAN etc. The interface parameters can be set using the balance. The interfaces available are stated in the model description.

Density determination

One of the main areas of application for laboratory balances is determining densities, e.g. determining the specific weight of liquids and solids. To do this you will need a highly accurate precision or analytical balance and a density set. It is particularly convenient if the balance can calculate and display the density right away.

It has become apparent that by means of weigting when in the process of determining the density of liquids and solids according to the buoyancy method particularly accurate results can be obtained (Archimedes' principle).

- a) Density determination of liquids: By means of measuring the buoyancy with a glass plummet with known volume immersed in the liquid to be measured
- b) Density determination of solid bodies:

$$\rho = \underline{\qquad A} \cdot \rho_0$$

 ρ = Density of sample

A = Weight of sample in air

B = Weight of sample in auxiliary liquid

 ρ_0 = Density of the auxiliary liquid

Applications:

a) Pre-packaged goods control, whenever a product is sold according to its volume [cm³]. This volume is calculated with weight [g]: density [g/cm³].

b) Materials analysis

DMS = Strain gauge



An electrical resistor strip that is glued to an elastic deforming body made of aluminium. As the strain gauge is mechanically deformed its resistance value changes, allowing the measured value to be calculated.

Draught shield

Required for balances with ► *Readout* $d \le 1$ mg, to avoid disturbing air movements.

Dual-range balance

As the load increases, the balance switches automatically to the next largest range, for both, weighing range [Max] as well as readout [d].



Error limit classes for test weights according to EU directive OIML R111

For further details, see product group 17 "Test weights"



FACTORY

These options can only be carried out at KERN factory.

FORCE = Electromagnetic force compensation



A counterforce is created by means of a coil in a permanent magnet. This counterforce is the same as the load of the weight being measured on the scale and therefore equalising. The measured value is calculated via the change in the coil current.



GLP = Good Laboratory Practice

► ISO/GLP

Gravitational acceleration

► Gravitational force

Gravitational force

very important influence for precise electronic balances. Due to the varving influence balances have to be ▶ adjusted at the location of use.



HACCP = Hazard Analysis and Critical **Control Points (HACCP)**

The HACCP concept is a preventative system, which is designed to guarantee the safety of foodstuffs EC regulation 852/2004 mandates the use of the HACCP concept for all companies which are involved in production, processing and sales of foodstuffs.



ISO 9000ff/DIN EN ISO 9000ff

Quality Management System in the form of a DIN Norm for quality assurance in a factory.

ISO calibration/ISO certificate = factory calibration certificate

Testing measurement devices for accuracy in accordance with a procedure which is recognised, but not accredited.

ISO/GLP record keeping





Quality Assurance Systems demands record keeping of weighing results and correct adjusting of the balance, giving details of date, time and balance identification. The easiest way to obtain this documentation is by means of a connected printer.



Junction Box

For connection and simple corner adjustment of several load cells.



KCP is an universal communication protocol between laboratory balances, industrial scales or other measuring instruments and digital devices, such as a computer, server or process management system. Due to the universal protocol structure, one measuring instrument can be replaced by another without adapting the communication interface.



Linearity/Precision

Greatest deviation of the weight displayed of a balance with regard to the value of the respective test weight in terms of plus and minus across the whole weighing range.



Minimum load [Min]

Lower limit of the verifiable weighing range. Is marked on the verification mark. The function of the balance is also given below the minimum load.

Minimum sample weight

Indicates the smallest weight which can be determined, depending on the process accuracy required.

Multi-division balance / Multi-range balance

On multi-division balances, the weighing range is subdivided several times, each with a different readability. The readability [d] changes automatically with increasing and decreasing load. Multi-rasnge balances have several weighing ranges with different maximum loads and different numerical

increments. Switching takes effect automatically when the load increases; switching back to the lower weighing range only takes effect when the scale has been completely unloaded.



Newton

Newton (N) is the unit for physical force values. A Newton is the force required to accelerate a 1 kg mass at rest to a speed of 1 m/s within one second.

Notified body

Neutral and independent, predominantly government bodies, which are formally appointed by the EC. They are engaged in the field of verification for conformity evaluations (initial verification) and type-approval test within the scope of type approvals.



Optimisation of reference weight (when piece counting)

See product group 9 "Counting balances/ Counting systems"



Percentage determination



Example: Reference weight prior to drying: 50g = balance display 100%. After drying 40g = balance display 80% absolute (dry mass) or 20% relative (humidity).

Permissible ambient temperature

Measuring errors are possible if you use the balances outside the permitted specified ambient temperature range. With verified balances this is stated on the identification plate.

PLU (Price Look Up)

This refers to a data memory in price-computing retail scales for the base price of sales items.

Pre-packaging legislation (FPVO)

Ensures that pre-packed goods are filled correctly, for example, in food industry. The Weights and Measures Act governs the permissible weight and volume tolerances

PRE-TARE

Entering and saving a tare weight (e.g. container weight) through weighing or manual entry using the balance keypad before the actual weighing process. When you subsequently place the tare container on the balance, the balance will show zero immediately - saves time. Particularly useful e.g. for checking fill levels

Proof of compatibility

This documents the verification compatibility for combinations of weighing modules such as display devices, load cells and connecting elements.



Readout [d]

Smallest readable weight increment on a digital display.

Recalibration

Periodic checking of the precision of measurement equipment/checking equipment (e.g. balances/ weights) to control accuracy,

► Control of measurement equipment

Reference weight (when piece counting)

See product group 9 "Counting balances/ Counting systems"

Reproducibility (standard deviation)

Sequenced measure of conformity in repeated weighing (e.g. balances) subject to the same conditions. Mostly 1 [d] or less. Quality feature.

Resolution of a balance

The resolution is calculated from the weighing range [Max] divided by the readout [d],

e. g. [Max] 420 g : [d] 0.001 g = 420,000 points. The resolution is a quality feature - the higher, the better.



SC-TECH = Single-Cell Technology



ium block, which gives a very high measurement quality.

Semi-micro balance

Analytical balance with a readout [d] = 0,01 mg

Smallest part weight when counting

The smallest piece weight, which a balance can accept for piece counting. For the relevant model, enter "g/piece" in the product data table.





magnetically excited, causing it to oscillate. The measured value is calculated via the change in frequency corresponding to the load of the weight being measured on the scale.

Taring, automatic

► PRE-TARE

Taring, subtractive

The available weighing range of a balance is reduced by the value of the tare load. Example: weighing range of a balance Max 6000g, Tare (= container) 470g, available weighing range 5530g.

Test weight, external (previously calibration weight)



III ^A

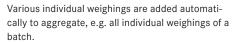
For adjusting or checking the balance accuracy ► Adjusting the weighing range.

The external test weight can be DAkkS calibrated at any time, even afterwards, see product group 18 "Calibration Service".

Test weight, internal

Like test weight external, but installed in the balance and powered.

Totalising



Traceability to the National Standard

A pre-requisite for every perfect measurement is the validated comprehensive proof that the measuring equipment can be traced back to the international or national standards. In Germany the statutory binding standards are available from the

Type approval for balances

Strict process to test whether a balance fulfils the verification requirements. A balance can only be verified, if it has got a type approval from a

► notified body.

Uncertainty of measurement of a balance (= standard deviation)

Determined for each balance according to a precisely given test method and documented in the ► Calibration certificate. It depends on various factors, both, internal and external. Uncertainty of measurement increases by a rising charge of the balance, see product group 18 "Calibration Service"



Verification

Verification, in accordance with the new terminology "Conformity assessment".

Only balances with ► EC type approval can be evaluated for conformity. These balances have an identification plate with the metrology marking **M**. The state requires assessment for conformity and this assessment serves as consumer protection. According to EU directive 2014/31/EEC balances must be officially assessed for conformity (calibrated) if they are used as follows:

- a) in commercial trade when the price of a commodity is determined by weighing.
- b) in the manufacture of pharmaceuticals in pharmacies and analysis in pharmaceutical and medical laboratories.
- c) for official purposes.
- d) in the production of prepackaging.
- e) in medical applications.

Every balance is tested by KERN and marked with a conformity mark. Its accuracy within the framework of permissible tolerances is thereby confirmed. EU verification applies to all member states of the EU.

Verification classes of balances



Class I - Analytical balance (precision balance), Class II - precision balance,

Class III - industrial scale (commercial scale).

Verification of a balance with adjusting program CAL EXT

The adjusting program is sealed with an official mark after the verification. Thus the verification is only valid for the specific location of use. ► Gravitational force To be able to correctly adjust the balance to your location of use, it is necessary to advise the location of use and postcode. See individual model details for the information as to whether verification can be carried out in the factory or at the location of use.

Verification of a balance with automatic internal adjusting CAL INT

The above restrictions in respect of the location of use do not apply, because the automatic internal adjusting works also after verification, therefore it is not sealed. In this case, verification does not depend on the location.

Verification validity for balances

Generally 2 years for all verification classes, for control balances generally 1 year, after expiry the balance has to be re-verified.

Verification value [e]

Measure of the verification tolerance, depending on balance, mostly between 1 [d] and 10 [d] ► *Readout*



Weighing range [Max]

is the working range of the balance. The balance can be loaded up to the specified upper limit.

KERN - COMMITMENT TO QUALITY AT AN INTERNATIONAL LEVEL



Partners with experience and competence are an essential factor for process-oriented processes in professional weighing and measuring technology. With KERN you have a service partner by your side who has a state-of-the-art test service with an accredited calibration laboratory. Our colleagues are available both for technical questions and also individual solutions and will be glad to help you.

The following accreditations and certificates represent our commitment to quality: Certified QM system DIN EN ISO 9001, DAkkS Accreditation DIN EN ISO/IEC 17025, conformity evaluation in accordance with NAWID: 2014/31/EU, Medical certifications DIN EN ISO 13485 and 93/42/EEC.

You can also find further information online, please see www.kern-lab.com



temperature, humidity



