

Tradition and innovation – 169 years of KERN

Independent and family-run, KERN is already in its 6th generation and is synonymous with quality and reliability in customer service.

fast

- 24 hours delivery service – order today, on its way tomorrow

- Sales & service hotline from 8:00 am to 6:00 pm

reliable

- 3 years warranty for balances over € 400,-

- Precision in weighing technology for the last 169 years

diverse

- One-stop shopping: from pocket balances through to floor scales – everything from one supplier

- Quick as a flash, find the product you want with the „Balance Quick-Finder“ at www.kern-sohn.com

competent

- DKD accreditation (DIN EN ISO/IEC 17025)

- QM system (DIN EN ISO 9001:2000)

- Initial verification by the manufacturer (2009/23/ECC)

- Medical (DIN EN ISO 13485 & 93/42/EEC)

Ordering

 **Order hotline**

+49-[0]7433-9933-0

 **Service hotline**

+49-[0]7433-9933-199

 **DKD hotline**

+49-[0]7433-9933-196

 **Online-Shop**

www.kern-sohn.com


 **E-mail order**

info@kern-sohn.com

 **Fax Order**

+49-(0)7433-9933-149

Consulting

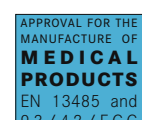
 **Our team of consultants will assist you**

from Monday to Friday
from 8:00 am to 6:00 pm

 **www.kern-sohn.com**

For product specification sheets, user manuals, useful information, technical glossary pictures and much more search engine as well as a smart for test weights and balances

KERN – Professional measuring.



KERN & SOHN GmbH
Balances, Test weights,
DKD Calibration laboratory

Tel. +49-[0]7433-9933-0
Fax +49-[0]7433-9933-149

info@kern-sohn.com
www.kern-sohn.com

Ziegelei 1
72336 Balingen
Germany

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BALANCES & TEST SERVICE

GB for laboratory, industry and food



BALANCES & TEST SERVICE – for laboratory, industry and food

2013

GB

2013

How do I find the product I am looking for?

The tried and tested quick search system – „Quick-Finder“ ahead of each product group means that you can search against a target group using the weighing data you need, such as readout, weighing range and main features for each model.

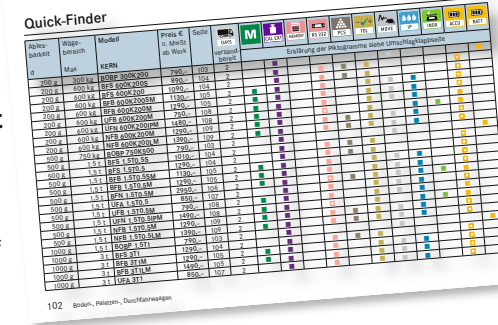
And it's this simple – find the product you want in 2 steps:

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






























... or use the model name and find the product quickly and efficiently using the A-Z model list:

KERN Models A – Z

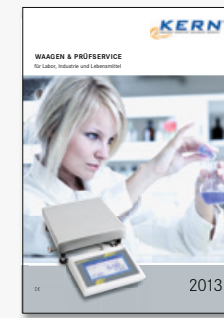
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KERN Pictograms

-  **Internal adjusting (CAL):** Quick setting of the balance's accuracy with internal adjusting weight (motordriven).
-  **Adjusting program (CAL):** For quick setting of the balance's accuracy. External adjusting weight required.
-  **Memory:** Balance contains memories, e.g. for item data, weighing data, tare weights etc. PLU
-  **Data interface RS-232:** To connect the balance to a printer, PC or network
-  **Control outputs (optocoupler, digital I/O)** to connect relays, signal lamps, valves, etc.
-  **Interface for second balance:** for direct connection of a second balance
-  **Network interface:** For connecting the scale to an Ethernet network. With KERN products you can also use a universal RS-232/LAN converter.
-  **GLP/ISO record keeping:** of weighing data with date, time and identification-no. Only with printers from KERN.
-  **Piece counting:** Reference quantities selectable. Display can be switched from piece to weight
-  **Net-total weighing:** weight of tare cup and weight of components memorized in two separate stores.
-  **Percentage determination:** Determining the deviation in % from the target value (100%).
-  **Weighing units:** Can be switched to e. g. nonmetric units at the touch of a key. See balance model. Please refer to KERN's website for more details.
-  **Weighing with tolerance range:** Upper and lower limiting can be programmed individually, e.g. dosing/sorting and portioning.
-  **Vibration-free weighing:** (Animal weighing program) Vibrations are filtered out so that a stable weight is obtained.
-  **Spray and dust protection IPxx:** The type of protection is shown by the pictogram. For details see the glossary.
-  **Stainless steel:** the balance is protected against corrosion.
-  **Suspended weighing:** load support with hook on the underside of the balance.
-  **Battery operation:** Ready for battery operation. The battery type is specified for each device.
-  **Rechargeable battery pack:** rechargeable set.
-  **Mains adapter:** 230V/50Hz in standard version for Germany. On request GB, AUS or USA version.
-  **Power supply:** integrated in balance. 230V/50Hz in Germany. More standards e. g. GB, AUS, USA on request.
-  **Strain gauges:** Electrical resistor on an elastic deforming body.
-  **Tuning fork principle:** A resonating body is electromagnetically excited, causing it to oscillate.
-  **Electromagnetic force compensation:** Coil in a permanent magnet. For the most accurate weighings.
-  **Single cell technology:** Advanced version of the force compensation principle with the highest level of precision.
-  **Verification possible:** The time required for verification is specified in the pictogram.
-  **DKD calibration possible:** The time required for DKD calibration is shown in days in the pictogram.
-  **Package shipment:** The time required to manufacture the product internally is shown in days in the pictogram.
-  **Pallet shipment:** The time required to manufacture the product internally is shown in days in the pictogram.
-  **Warranty:** The warranty period is shown in the pictogram.

KERN - measuring technology and testing services from a single source



Balances & Test service catalogue

Provides a complete overview of the KERN line of balances, test weights, and services.



Medical scales catalogue

Complete line of medical scales, from infant scales to professional patient scales, seated scales and adiposity scales, as well as innovative hand grip dynamometers, chemist's scales, and veterinary scales.



KERN DKD calibration service brochure

Detailed information on topics pertaining to the calibration of balances, test weights, and force measuring devices.



SAUTER measuring equipment catalogue

Test instruments for industry and commerce, such as force, coating thickness, material thickness, and hardness measuring systems.

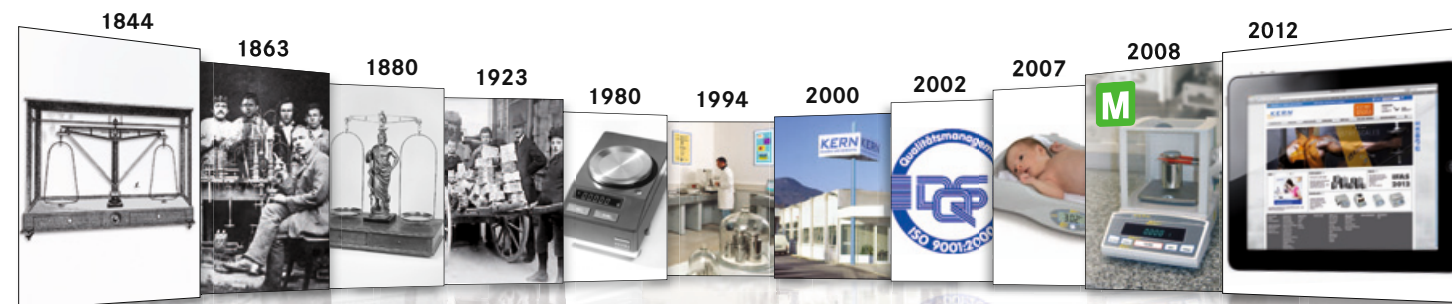


KERN branch prospectuses

Compact overview of the bestsellers for many different lines of business – just the balances your customers need!







Tradition and innovation for more than 169 years

Independent and family-run, KERN is already in its 6th generation and is synonymous with quality and reliability in customer service.



- **1844** KERN is founded – precision balances are produced
- **1863** A proud Gottlieb Kern with his staff
- **1880** Pharmaceutical balance with Aesculap
- **1923** Inflation – KERN wages are paid with self printed currency
- **1980** The electronic balance ousts mechanical devices
- **1994** Accredited for weights DKD laboratory (ISO 17025)
- **2000** New premises in Balingen
- **2002** Existing QM system certification in accordance to DIN EN ISO 9001:2000 standards
- **2007** Approval for the Manufacture of Medical Products (DIN EN13485 and 93/42/EEC)
- **2008** Approval for manufacturer's initial calibration (2009/23/ECC)
- **2009** Approval for the manufacture and sale of height rods (DIN EN 13485 and 93/42/ECC)
- **2012** Verification point for non-automatic balances and test weights
- **2012** New customer portal www.kern-sohn.com goes live

Your advantages

-  **Quick Delivery**
Items in stock are sent the same day if orders are placed before 1:00 pm (valid for parcel service delivery within the EC).
-  **Price performance ratio**
KERN scales are always an inexpensive alternative. They are durable, uncomplicated and easy to place into operation.
-  **Direct dispatch**
of ordered goods to your customer is available, invoice will be issued to you (third party business).
-  **3 years warranty**
Items under € 400,-: 2 years
-  **You have no storage costs**
– we maintain the storage.
-  **Sale or return**
within 14 days of purchase

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Our Tip:

Our tip – give us a visit sometime in the **Museum of scale and weight...**



How a scale learns to weigh! Come and experience Kern history in the Zollenschloss at Balingen ... www.balingen.de → Culture

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Do you have questions about our products?

Our customer consultants will be pleased to assist you:

► GB, IE:



Marietta Diener

Tel. +49-(0) 74 33-99 33-167
Fax +49-(0) 74 33-99 33-29167
diener@kern-sohn.com

► USA, CAN, TR, Middle East, Africa, Oceania:



Katharina Queitsch

Tel. +49-(0) 74 33-99 33-118
Fax +49-(0) 74 33-99 33-29118
katharina.queitsch@kern-sohn.com

► MT, Scandinavia:



Tanja Jetter

Tel. +49-(0) 74 33-99 33-168
Fax +49-(0) 74 33-99 33-29168
Mobile +49-[0]151-46143236
tanja.jetter@kern-sohn.com

► South East Asia, Central and South America



Corinna Klaass

Tel. +49-(0) 74 33-99 33-215
Fax +49-(0) 74 33-99 33-29215
corinna.klaass@kern-sohn.com

► RO, CZ, SK, HU, Germany (ZIP Code 4, 5):



Inna Wandler

Tel. +49-(0) 74 33-99 33-218
Fax +49-(0) 74 33-99 33-29218
Mobile +49-(0)151-46142894
wandler@kern-sohn.com

► F, BE, LUX, Maghreb:



Danielle Bergfeld

Tel. +49-(0) 74 33-99 33-161
Fax +49-(0) 74 33-99 33-29161
Mobile +49-(0)151-46143229
bergfeld@kern-sohn.com

► F, ES, NL, Maghreb



Brigitte Zubatiuc

Tel. +49-(0) 74 33-99 33-132
Fax +49-(0) 74 33-99 33-29132
Mobile +49-(0)151-46143240
zubatiuc@kern-sohn.com

► PT, SLO, HR, BA, RS, MK:



Taras Mikitisin

Tel. +49-(0) 74 33-99 33-143
Fax +49-(0) 74 33-99 33-137
Mobile +49-(0)171-5590115
mikitisin@kern-sohn.com

► Baltic States, PL, BG, GUS:



Julia Kostjuk

Tel. +49-(0) 74 33-99 33-141
Fax +49-(0) 74 33-99 33-29141
Mobile +49-(0)171-3059661
kostjuk@kern-sohn.com

► Management Board:



Albert Sauter

Tel. +49-(0) 74 33-99 33-157
Fax +49-(0) 74 33-99 33-29157
albert-sauter@kern-sohn.com

► Sales Management:



Ulrich Ulmer

Tel. +49-(0) 74 33-99 33-160
Fax +49-(0) 74 33-99 33-29160
ulmer@kern-sohn.com

► Marketing Management:



Thomas Fimpel

Tel. +49-(0) 74 33-99 33-130
Fax +49-(0) 74 33-99 33-29130
fimpel@kern-sohn.com

► Technical Service:



Markus Reinke

Tel. +49-(0) 74 33-99 33-190
Fax +49-(0) 74 33-99 33-195
reinke@kern-sohn.com



Heiko Taufenbach

Tel. +49-(0) 74 33-99 33-120
Fax +49-(0) 74 33-99 33-195
taufenbach@kern-sohn.com



Edgar Litti

Tel. +49-(0) 74 33-99 33-191
Fax +49-(0) 74 33-99 33-195
litti@kern-sohn.com

► DKD Calibration Service:



German (Zip Code 4, 5, 6), UK, IE, North America, BeNeLux, Scandinavia

Karl-Richard Fuchs

Tel. +49-(0) 74 33-99 33-136
Fax +49-(0) 74 33-99 33-29136
fuchs@kern-sohn.com

► Accountancy:



Jutta Osswald

Tel. +49-(0) 74 33-99 33-215
Fax +49-(0) 74 33-99 33-149
jutta.osswald@kern-sohn.com

„Get in touch with the future“



Come and discover all the features of the innovative KERN touchscreen models

- The highest level of transparency

All the function keys on the touch-sensitive display are labelled with plain text and with the menu languages available, this helps to ensure the highest level of transparency and ease of operation.

- Simply start writing

Thanks to the large keypad you can easily enter recipe ingredients, batch or item descriptions, user ID, tare values, etc. in plain text – saving time and avoiding misunderstandings. At any time, all values can be printed out or transferred to a connected PC in accordance with GLP.

- Save costs

With the efficient touchscreen models, all common weighing applications are covered with one balance, such as, for example, counting, dispensing, mixing, percentage determination, totalising, animal weighing, etc. So you just need one balance, which can be used in more than several locations, thanks to its compact dimensions.

- Process reliability

A generous memory allows you to store recipes with a large number of ingredients, which can be easily recalled and processed, time and time again.

- Several models

Compact for high-tech laboratories, with extra large weighing plate for larger units or with removable display for use under hoods or in glove bags – at KERN you will always find just the right product.

KERN – Weighing can be this simple.

You will find a detailed description of our new touchscreen models on the following pages:

- Page 30: PKT precision balance
- Page 52: DLT moisture analyser
- Page 64: FKT bench scale
- Page 100: IKT platform scale



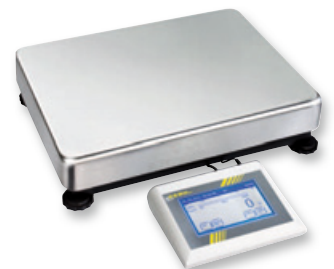
KERN DLT



KERN PKT



KERN FKT



KERN IKT

News • News • News

We also have lots of new models in our range for 2013.
Innovative products with the KERN quality you are used to – why not have a look for yourself ...

Precision balance EMB-V

Entry level laboratory balance with integrated density determination function



only € 225,-

Further details → see page 15

Precision balance PCD

High resolution precision balance with removable display device for maximum flexibility



from € 235,-

Further details → see page 20

Precision balance KBJ

Convenient laboratory model at a basic price and completely new: with internal automatic adjustment!



from € 440,-

Coming soon...

Analytical balance ABS-N/ABJ-NM

Entry level analytical balance with high-quality single cell weighing system



from € 810,-

Further details → see page 42

Moisture analyser DLT

High-end moisture analyser with touch-sensitive screen and innovative Windows CE touch® operating system



only € 2.600,-

Further details → see page 52

IP protected bench scales WTB-N

Ideal in the food industry, protected by IP65, easy to clean



only € 220,-

Further details → see page 68

Stainless steel bench scale FOB-S

Compact stainless steel scale – now particularly high resolution



only € 70,-

Further details → see page 69

Stainless steel platform scale SFB

Stainless steel platform scale with IP67, XL platform and with EC-type approval



from € 820,-

Further details → see page 73

Counting scale CFS

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



only € 290,-

Further details → see page 83

Industrial counting scale IFS

Industrial counting scale with convenient keypad for easy data entry, now with counting resolution 60,000 points



from € 300,-

Further details → see page 85

Platform scale ILS/ILJ

High-resolution industrial scale with robust weighing technology for the most precise results from 0,1 g up to 50 kg, also with EC type approval

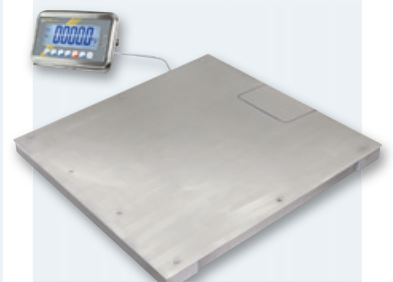


from € 1.700,-

Further details → see page 99

Stainless steel floor scale BFN

Stainless steel floor scale in XL size with IP68 platform



only € 2.950,-

Further details → see page 106

1 Pocket balances

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CM-C	Compact pocket balance with carat display – ideal for jewellers	08



Precision in pocket format:

Pocket balances are the ideal helper whenever mobility and high precision are required. Since they have fewer keys, operation is simple and fast. Different weight units stored in the pocket balance, such as g, oz, ct, gn, etc., make them universally usable. An integrated calculator lets you use the weight measured immediately in calculations, e.g. a price, unit count, average values and many more. 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, for inspection of production weights; during picking of small parts
- In quality control for quick testing of small parts like plastic parts from injection moulding machines, milled parts, screws, etc.
- In quality control for quick testing of small parts like plastic parts from injection moulding machines, milled parts, screws, etc.
- For mobile weighing, in on-site sampling, for fast analysis anywhere there's no power outlet.
- For hobbies and sports, for example for the loading of black powder, to weigh parts from construction sets, etc.

- In commerce, for the fast determination of the weights of coins, jewellery, precious stones, etc.
- In veterinary medicine for the weighing of small animals, the mixing of feed, etc.
- In the food area for the preparation of spice or tea mixes, for the weighing of food for dieting.

Of course, all KERN pocket balances can also be calibrated and delivered with a DKD calibration certificate (optional). This ensures the high level of accuracy of your balance.



Your KERN product specialist will be happy to help:

Inna Wandler
Product specialist
Pocket balances, Analytical balances
 Tel. +49-(0) 74 33-99 33-218
 Fax +49-(0) 74 33-99 33-29218
 wandler@kern-sohn.com

Quick-Finder

◆ = Carat balances ■ = Standard □ = Option

Read-out	Weighing range	Model	Price € excl. VAT ex works	Page	DAYS ready for shipping	CAL EXT	MEMORY	BATT
d	Max	KERN				For an explanation of the symbols, see the flap of the envelope		
0,001 g	20 g	TAB 20-3 ◆	70,-	8	1	■		■
0,01 ct	50 ct	CM 50-C2N ◆	90,-	8	1	■		■
0,01 g	60 g	CM 60-2N	79,-	8	1	■		■
0,1 g	150 g	TEE 150-1	38,-	8	1	■		■
0,1 g	150 g	CM 150-1N	50,-	8	1	■		■
0,1 g	200 g	TCB 200-1	52,-	8	1	■		■
0,1 g	200 g	TEB 200-1	45,-	8	1	■		■
0,1 g	320 g	CM 320-1N	50,-	8	1	■		■
1 g	1000 g	CM 1K1N	50,-	8	1	■		■

Pocket balances KERN TEE · TCB · TEB · CM · CM-C · TAB

01



KERN TEE

STANDARD

CAL EXT BATT 0.00 TARE UNIT

STANDARD OPTION

1 DAY WARRANTY +3 DAYS DKD



KERN TCB

STANDARD

CAL EXT BATT 0.00 TARE UNIT

STANDARD OPTION

1 DAY WARRANTY +3 DAYS DKD



KERN TEB · CM · CM-C

STANDARD

CAL EXT BATT 0.00 TARE UNIT

STANDARD OPTION

1 DAY WARRANTY +3 DAYS DKD



KERN TAB

STANDARD

CAL EXT BATT 0.00 TARE UNIT

STANDARD OPTION

1 DAY WARRANTY +3 DAYS DKD

Designer pocket balance at a bargain price

- **Simple and convenient 2-key operation**
- **Cover made of shock proof plastic** as protection against pressure and dust. Can also be used as a tare cup
- **Note: Can be printed with your logo**, from 100 pcs. Please ask for details

This is where the fun starts with pocket format weighing

- **Simple and convenient 2-key operation**
- **Small and handy**
- **Transport box and weighing pan included**
- **Revolving weighing plate** (as overload protection)
- **Note: Individual logo printing on request**

Small, practical and protected in a hard case cover

- TEB:**
- **Hard case cover as protection against pressure and dust**
- 1 CM:**
Functions as with TEB, in addition however with:
- **Integrated calculator**
- 2 CM-C:**
Functions as with TEB, in addition however with:
- **Adjusting weight standard**
 - **Draft shield** against air movements standard
 - **weighing pan standard**

High-precision pocket carat balance for jewellers and travelling salesmen

- **Simple and convenient 4-key operation**
- **Can be switched over from g to ct, gn at the touch of a key**
- **Hard case cover as protection against pressure and dust**
- **Adjusting weight and weighing pan standard**



Model	KERN	TEE 150-1	TCB 200-1	TEB 200-1	CM				CM 50-C2N	TAB 20-3
					CM 60-2N	CM 150-1N	CM 320-1N	CM 1K 1N		
Weighing ranges [Max] g		150	200	200	60	150	320	1000	10 g 50 ct	20 g 100 ct
Readout [d] g		0,1	0,1	0,1	0,01	0,1	0,1	1	0,002 g 0,01 ct	0,001 g 0,005 ct
LCD display		backlit, digit height 9 mm	digit height 9 mm	digit height 11 mm	digit height 12 mm				digit height 9 mm	backlit, digit height 9 mm
Dimensions of weighing plate WxD		60x64 mm	Ø 80 mm	70x80 mm				50x40 mm	36x42 mm	
Overall dimensions WxDxH		67x100x22 mm	ØxH 80 mm	85x130x25 mm					95x133x33 mm	
Power supply		Batteries included, 2 x 1,5 V AAA	Batteries included, 2 x LR 44 AUTO-OFF function to preserve battery life, can be switched off	Batteries included, 2 x 1,5 V AAA AUTO-OFF function to preserve battery life, can be switched off					Batteries included, 2 x 1,5 V AAA, Operating time approx. 150 h	
Net weight		approx. 0,1 kg	approx. 0,05 kg	approx. 0,17 kg				approx. 0,2 kg		
Permissible ambient temperature		5°C/35°C							10°C/30°C	
Price €, excl. VAT, ex works		38,-	52,-	45,-	79,-	50,-	50,-	50,-	90,-	70,-
Option DKD Calibr. Certificate		963-127, € 65,-								

2 Precision balances

KERN Model		Page
EMB	Entry level laboratory balance with tremendous weighing performance	14
EMB-V	Entry level laboratory balance with integrated density determination function	15
EMS	Entry level model in the low cost range with large weighing plate	16
PFB	Low-cost model based on a concept of easy use	17
PCB	The economical solution for the bargain hunter	18/19
PCD	High resolution precision balance with removable display device for maximum flexibility	20
440	The bestseller in basic laboratory balances	21
PLE-N	Low-cost precision balance with wide range of functions	22
KB-N KB-NM	Convenient model at a basic price, also with EC type approval [M]	23
PKS PKP	Two laboratory specialists with clear graphics display for the most simple user guidance	24/25
572 573	All-rounder e.g. as laboratory, counting or checking balance, also with EC type approval [M]	26
EWB	Verifiable entry level model in the upper laboratory class with EC type approval [M]	27
EW	Gold and laboratory balance with EC type approval [M]	28
PLJ-N	Excellent performance, excellent price - also with EC type approval [M]	29
PKT	Touchscreen laboratory balance with extensive range of functions	30/31
PLS PLJ	Excellent performance, excellent price - also with internal adjustment	32/33
EW-N EG-N	Top of the range cost-effectiveness, with EC type approval [M]	34/35
PES PEJ	Robust laboratory and industrial precision balance, with EC type approval [M]	36
PLT	High-quality precision balance with convenient graphics display	37
PBS PBJ	Multifunctional laboratory balance with single-cell weighing system and EC type approval [M]	38/39
	High resolution model with large weighing range and large weighing plate for special laboratory applications	40



KERN Analytical balances with Single-cell cutting edge technology



To satisfy stricter requirements for precision, speed, and → **reproducibility** of weight values, monolithic balance cells are increasingly the standard. These are measurement sensors for determination of weight that are fabricated from an aluminium. These systems distinguish themselves from conventional balance cells in terms of both quality and performance:

- Higher measurement speed
- Better measurement precision
- Stable temperature behaviour
- Improved mechanical sturdiness
- Higher corner load reliability

KERN analytical balances on this measurement principle are designated as using „Single Cell Technology“ (→ **SC TECH**).

→ See the glossary on page 158/159



Interesting facts about the determination of density

One of the main areas of application for laboratory balances is determining densities, i.e. determining the specific weight of liquids and solids. To do this you will need a highly accurate precision balance and a density set. It is particularly convenient if the balance can calculate and display the density immediately. It has become apparent that using weighing when determining the density of liquids and solids in accordance with the buoyancy method gives particularly accurate results (Archimedes' principle).

Density determination of liquids:

By means of measuring the buoyancy with a glass plummet

Density determination of solid matter:

The density is the ratio of weight [g]: Volume [cm³]. The weight is derived by weighing the sample in air. The volume is determined from the buoyancy [g] of a sample, which is submerged in a liquid. The density [g/cm³] of this liquid is known.

Applications:

- Materials analysis
- Density of porous materials
- Pre-packaged goods check, whenever the merchandise is sold according to volume [cm³]. This volume is calculated from the weight [g] : density [g/cm³].

Plummet

for density determination of liquids. Made of glass, hanging on a platinum wire.

Volume 10 cm³, weight 30 g, length 169 mm, verifiable, KERN 152-532, € 97,-
Verification, KERN 950-272, € 32,-

You can find examples of balances for density determination on pages 15, 22, 29-33, 37-39, 42-44, 46, 100/101.



KERN EMB-V

KERN ACS-N/ACJ-NM













Your KERN product specialist will be happy to help:

Bettina Hampe
Product specialist
Precision balances

Tel. +49-(0) 74 33-99 33-147
Fax +49-(0) 74 33-99 33-29147
hampe@kern-sohn.com

Quick-Finder

■ = Standard □ = Option

Read-out	Weighing range	Model	Price € excl. VAT ex works	Page	 DAYS ready for shipping	 M	 CAL INT	 CAL EXT	 MEMORY	 RS 232	 PCS	 TOL	 ACCU	 BATT
0,001 g	60 g	440-21A	350,-	21	1			■		■	■		□	□
0,001 g	100 g	EMB 100-3	180,-	14	1			■					□	□
0,001 g	100 g	PCB 100-3	255,-	18	1			■		■	■		□	□
0,001 g	120 g	PFB 120-3	245,-	17	1			■		■	■			
0,001 g	120 g	KB 120-3N	270,-	23	1			■		■	■		□	
0,001 g	150 g	EW 150-3M	610,-	28	1			■		□			□	
0,001 g	200 g	EMB 200-3	205,-	14	1			■					□	□
0,001 g	200 g	EMB 200-3V	225,-	15	1			■		■			□	□
0,001 g	200 g	PFB 200-3	260,-	17	1			■		■	■			
0,001 g	200 g	PKS 200-3	380,-	24	1			■	■	■	■	■	□	
0,001 g	220 g	EW 220-3NM	670,-	35	1			■		■	■		□	
0,001 g	220 g	EG 220-3NM	790,-	35	1	■	■			■	■	■	□	
0,001 g	240 g	KB 240-3N	280,-	23	1			■		■	■		□	
0,001 g	240 g	572-30	450,-	26	1			■		■	■		□	
0,001 g	250 g	PCB 250-3	295,-	18	1			■		■	■		□	□
0,001 g	250 g	PCD 250-3	320,-	20	1			■		■	■		□	□
0,001 g	300 g	EMS 300-3	260,-	16	1			■			■			□
0,001 g	300 g	PFB 300-3	285,-	17	1			■		■	■			
0,001 g	300 g	PKP 300-3	520,-	24	1			■	■	■	■	■	□	
0,001 g	300 g	572-31	450,-	26	1			■		■	■		□	
0,001 g	300 g	PKT 300-3	840,-	30	1			■	■	■	■	■	□	
0,001 g	350 g	PCB 350-3	305,-	18	1			■		■	■		□	□
0,001 g	360 g	KB 360-3N	300,-	23	1			■		■	■		□	
0,001 g	360 g	PKS 360-3	390,-	25	1			■	■	■	■	■	□	
0,001 g	360 g	PLJ 360-3NM	670,-	29	1	■	■			■	■	■	□	
0,001 g	420 g	PLE 420-3N	370,-	22	1			■		■	■	■	□	
0,001 g	420 g	PKP 420-3	540,-	24	1			■	■	■	■	■	□	
0,001 g	420 g	572-32	470,-	26	1			■		■	■		□	
0,001 g	420 g	PKT 420-3	870,-	30	1			■	■	■	■	■	□	
0,001 g	420 g	PLS 420-3F	480,-	32	1			■		■	■	■		
0,001 g	420 g	PLJ 420-3F	590,-	32	1		■			■	■	■		
0,001 g	420 g	EW 420-3NM	750,-	35	1			■		■	■	■	□	
0,001 g	420 g	EG 420-3NM	880,-	35	1	■	■			■	■	■	□	
0,001 g	420 g	PLT 420-3F	850,-	37	1		■			■	■	■		
0,001 g	420 g	PBS 420-3M	790,-	38	1			■		■	■	■		
0,001 g	420 g	PBJ 420-3M	990,-	38	1	■	■			■	■	■		
0,001 g	600 g	PLJ 600-3NM	690,-	29	1	■	■			■	■	■		
0,001 g	620 g	EW 620-3NM	850,-	35	1			■		■	■	■	□	
0,001 g	620 g	EG 620-3NM	990,-	35	1	■	■			■	■	■	□	
0,001 g	620 g	PEJ 620-3M	1460,-	36	1	■	■			■	■	■		
0,001 g	620 g	PBS 620-3M	1240,-	38	1			■		■	■	■		
0,001 g	620 g	PBJ 620-3M	1420,-	38	1	■	■			■	■	■		
0,001 g	720 g	PLS 720-3A	810,-	32	1			■		■	■	■		
0,001 g	720 g	PLJ 720-3A	890,-	32	1	o.r.	■			■	■	■		
0,001 g	720 g	PLT 720-3A	1150,-	37	1	o.r.	■	■	■	■	■	■		
0,001 g	750 g	PLJ 750-3N	690,-	29	1		■			■	■	■		
0,001 g	1200 g	PLS 1200-3A	840,-	32	1			■		■	■	■		
0,001 g	1200 g	PLJ 1200-3A	990,-	32	1		■			■	■	■		
0,001 g	1200 g	PLT 1200-3A	1230,-	37	1		■	■	■	■	■	■		
0,01 g	200 g	EMB 200-2	110,-	14	1			■					□	□
0,01 g	200 g	PCB 200-2	215,-	18	1			■		■	■		□	□
0,01 g	200 g	440-33N	290,-	21	1			■		■	■		□	□
0,01 g	220 g	EWB 220-2M	290,-	27	1			■			■	■	□	
0,01 g	400 g	440-35N	330,-	21	1			■		■	■		□	□
0,01 g	600 g	EMB 600-2	145,-	14	1			■					□	□

02

Quick-Finder











o.r. = on request ■ = Standard □ = Option

Read-out	Weighing range	Model	Price € excl. VAT ex works	Page	DAYS ready for shipping										For an explanation of the symbols, see the flap of the envelope									
															Model	Price €	Page	Days	M	CAL INT	CAL EXT	MEMORY	RS 232	PCS
0,01 g	600 g	PFB 600-2M	235,-	17	1	■		■			■	■												
0,01 g	600 g	440-35A	365,-	21	1			■		■	■		□	□										
0,01 g	600 g	PLJ 600-2GM	490,-	29	1	■	■			■	■	■	■											
0,01 g	600 g	EW 600-2M	580,-	28	1	■		■		□	■		□											
0,01 g	620 g	EWB 620-2M	530,-	27	1	■		■			■	■	□											
0,01 g	650 g	KB 650-2NM	320,-	23	1	■		■		■	■		□											
0,01 g	650 g	573-34NM	480,-	26	1	■		■		■	■		□											
0,01 g	820 g	EW 820-2NM	580,-	35	1			■		■	■	■	□											
0,01 g	1000 g	EMB 1000-2	180,-	14	1			■					□	□										
0,01 g	1000 g	PCB 1000-2	245,-	18	1			■		■	■		□	□										
0,01 g	1200 g	PFB 1200-2	210,-	17	1			■		■	■													
0,01 g	1200 g	KB 1200-2N	270,-	23	1			■		■	■		□											
0,01 g	1500 g	EW 1500-2M	630,-	28	1			■		□	■		□											
0,01 g	1600 g	572-33	420,-	26	1			■		■	■		□											
0,01 g	2000 g	EMB 2000-2	205,-	14	1			■					□	□										
0,01 g	2000 g	EMB 2000-2V	225,-	15	1			■		■	■		□	□										
0,01 g	2000 g	PFB 2000-2	220,-	17	1			■		■	■													
0,01 g	2000 g	KB 2000-2N	280,-	23	1			■		■	■		□											
0,01 g	2000 g	PKS 2000-2	380,-	24	1			■	■	■	■	■	□											
0,01 g	2200 g	EW 2200-2NM	720,-	35	1			■		■	■	■	□											
0,01 g	2200 g	EG 2200-2NM	840,-	35	1	■	■			■	■	■	□											
0,01 g	2200 g	PES 2200-2M	920,-	36	1	■		■		■	■	■	□											
0,01 g	2200 g	PEJ 2200-2M	1130,-	36	1	■	■			■	■	■												
0,01 g	2400 g	KB 2400-2N	290,-	23	1			■		■	■		□											
0,01 g	2400 g	572-35	430,-	26	1			■		■	■		□											
0,01 g	2500 g	PCB 2500-2	295,-	18	1			■		■	■		□	□										
0,01 g	2500 g	PCD 2500-2	305,-	20	1			■		■	■		□	□										
0,01 g	3000 g	EMS 3000-2	240,-	16	1			■			■			□										
0,01 g	3000 g	PFB 3000-2	250,-	17	1			■		■	■													
0,01 g	3000 g	PKP 3000-2	520,-	24	1			■	■	■	■	■	□											
0,01 g	3000 g	572-37	430,-	26	1			■		■	■		□											
0,01 g	3000 g	EW 3000-2M	740,-	28	1	■		■		□	■		□											
0,01 g	3000 g	PKT 3000-2	840,-	30	1			■	■	■	■	■	□											
0,01 g	3500 g	PCB 3500-2	305,-	18	1			■		■	■		□	□										
0,01 g	3500 g	PLJ 3500-2NM	660,-	29	1	■	■			■	■	■												
0,01 g	3600 g	KB 3600-2N	300,-	23	1			■		■	■		□											
0,01 g	3600 g	PKS 3600-2	390,-	24	1			■	■	■	■	■	□											
0,01 g	4200 g	PLE 4200-2N	370,-	22	1			■		■	■	■	□											
0,01 g	4200 g	PKP 4200-2	540,-	24	1			■	■	■	■	■	□											
0,01 g	4200 g	572-39	450,-	26	1			■		■	■		□											
0,01 g	4200 g	PKT 4200-2	870,-	30	1			■	■	■	■	■	□											
0,01 g	4200 g	PLS 4200-2F	480,-	32	1			■		■	■	■												
0,01 g	4200 g	PLJ 4200-2F	590,-	32	1		■			■	■	■												
0,01 g	4200 g	EW 4200-2NM	810,-	35	1			■		■	■	■	□											
0,01 g	4200 g	EG 4200-2NM	930,-	35	1	■	■			■	■	■	□											
0,01 g	4200 g	PES 4200-2M	1080,-	36	1	■		■		■	■	■	□											
0,01 g	4200 g	PEJ 4200-2M	1270,-	36	1	■	■			■	■	■												
0,01 g	4200 g	PLT 4200-2F	850,-	37	1		■	■		■	■	■												
0,01 g	4200 g	PBS 4200-2M	1040,-	38	1			■		■	■	■												
0,01 g	4200 g	PBJ 4200-2M	1320,-	38	1	■	■			■	■	■												
0,01 g	6200 g	PLS 6200-2A	810,-	32	1			■		■	■	■												
0,01 g	6200 g	PLJ 6200-2A	950,-	32	1		■			■	■	■												
0,01 g	6200 g	EW 6200-2NM	890,-	35	1			■		■	■	■	□											
0,01 g	6200 g	PES 6200-2M	1290,-	36	1	■		■		■	■	■	□											
0,01 g	6200 g	PLT 6200-2A	1150,-	37	1	o.r.	■	■	■	■	■	■												
0,01 g	6200 g	PBS 6200-2M	1290,-	38	1			■		■	■	■												

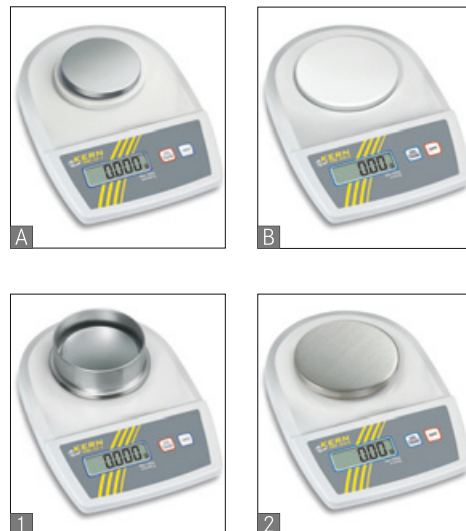
02

Quick-Finder

o.r. = on request ■ = Standard □ = Option

Read-out	Weighing range Max	Model KERN	Price € excl. VAT ex works	Page	 DAYS ready for shipping									
						For an explanation of the symbols, see the flap of the envelope								
0,01 g	6200 g	PBJ 6200-2M	1530,-	38	1	■	■			■	■	■		
0,01 g	8000 g	PLS 8000-2A	970,-	32	1			■		■	■	■		
0,05 g	6 kg	PFB 6K0.05	225,-	17	1			■		■	■	■		
0,05 g	10 kg	KB 10K0.05N	290,-	23	1			■		■	■	■	□	
0,05 g	12 kg	PKP 12K0.05	510,-	24	1			■	■	■	■	■	□	
0,05 g	12 kg	572-45	430,-	26	1			■		■	■	■	□	
0,05 g	12 kg	PKT 12K0.05	720,-	30	1			■	■	■	■	■	□	
0,05 g	20 kg	572-55	450,-	26	1			■		■	■	■	□	
0,1 g	400 g	440-43N	185,-	21	1			■		■	■	■	□	□
0,1 g	500 g	EMB 500-1	50,-	14	1			■					□	□
0,1 g	600 g	PFB 600-1M	300,-	17	1	■		■		■	■	■		
0,1 g	1000 g	PCB 1000-1	170,-	18	1			■		■	■	■	□	□
0,1 g	1000 g	440-45N	245,-	21	1			■		■	■	■	□	□
0,1 g	1200 g	EMB 1200-1	70,-	14	1			■					□	□
0,1 g	1200 g	EWB 1200-1M	290,-	27	1			■			■	■	□	
0,1 g	2000 g	PCB 2000-1	200,-	18	1			■		■	■	■	□	□
0,1 g	2000 g	440-47N	270,-	21	1			■		■	■	■	□	□
0,1 g	3000 g	EMB 3000-1	115,-	14	1			■					□	□
0,1 g	4000 g	440-49N	330,-	21	1			■		■	■	■	□	□
0,1 g	6000 g	EMB 6000-1	145,-	14	1			■					□	□
0,1 g	6000 g	EMS 6K0.1	155,-	16	1			■			■	■		□
0,1 g	6000 g	PFB 6000-1	200,-	17	1			■		■	■	■		
0,1 g	6000 g	PFB 6000-1M	230,-	17	1	■		■		■	■	■		
0,1 g	6000 g	PCB 6000-1	225,-	18	1			■		■	■	■	□	□
0,1 g	6000 g	440-49A	365,-	21	1			■		■	■	■	□	□
0,1 g	6000 g	EW 6000-1M	580,-	28	1	■		■		□	■	■	□	
0,1 g	6000 g	PLJ 6000-1GM	490,-	29	1	■	■			■	■	■	■	
0,1 g	6500 g	KB 6500-1NM	320,-	23	1	■		■		■	■	■	□	
0,1 g	6500 g	573-46NM	480,-	26	1	■		■		■	■	■		
0,1 g	8200 g	PBS 8200-1M	790,-	38	1			■		■	■	■		
0,1 g	8200 g	PBJ 8200-1M	1220,-	38	1	■	■			■	■	■		
0,1 g	10 kg	PCB 10000-1	230,-	18	1			■		■	■	■	□	□
0,1 g	10 kg	PCD 10K0.1	235,-	20	1			■		■	■	■	□	□
0,1 g	10 kg	KB 10000-1N	270,-	23	1			■		■	■	■	□	
0,1 g	10 kg	PKS 10K0.1	360,-	24	1			■	■	■	■	■	□	
0,1 g	10 kg	572-43	420,-	26	1			■		■	■	■	□	
0,1 g	12 kg	EMS 12K0.1	185,-	16	1			■			■	■		□
0,1 g	12 kg	EW 12000-1NM	690,-	35	1			■		■	■	■	□	
0,1 g	15 kg	PES 15000-1M	1280,-	36	1	■		■		■	■	■	□	
0,1 g	16 kg	PKP 16K0.1	490,-	24	1			■	■	■	■	■	□	
0,1 g	16 kg	572-49	420,-	26	1			■		■	■	■	□	
0,1 g	16 kg	PKT 16K0.1	720,-	30	1			■	■	■	■	■	□	
0,1 g	20 kg	PLS 20000-1F	510,-	32	1			■		■	■	■		
0,1 g	24 kg	PKP 24K0.1	510,-	24	1			■	■	■	■	■	□	
0,1 g	24 kg	572-57	430,-	26	1			■		■	■	■	□	
0,1 g	24 kg	PKT 24K0.1	750,-	30	1			■	■	■	■	■	□	
0,1 g	31 kg	PES 31000-1M	2020,-	36	1	■		■		■	■	■	□	
1 g	2200 g	EMB 2200-0	50,-	14	1			■					□	□
1 g	4000 g	440-51N	160,-	21	1			■		■	■	■	□	□
1 g	5200 g	EMB 5.2K1	52,-	14	1			■					□	□
1 g	6000 g	EMS 6K1	65,-	16	1			■			■	■		□
1 g	6000 g	PFB 6000-0M	295,-	17	1	■		■		■	■	■		
1 g	6000 g	PCB 6000-0	120,-	18	1			■		■	■	■	□	□
1 g	6000 g	440-53N	180,-	21	1			■		■	■	■	□	□
1 g	12 kg	EMS 12K1	95,-	16	1			■			■	■		□
5 g	5200 g	EMB 5.2K5	50,-	14	1			■					□	□

02



Entry level laboratory balance with tremendous weighing performance

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
- **Ready for use:** Batteries included. AUTO-OFF function to preserve the batteries, can be switched off

Technical data

- Large LCD display, digit height 15 mm
- Dimensions of weighing plate (plastic)
 - ▣ A 82 mm
 - ▣ B 105 mm
 - ▣ C 150 mm, see larger picture
- Dimensions housing WxDxH 170x240x39 mm
- Net weight approx. 0,5 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **1 Ring-shaped draft shield**, plastic, only for models with weighing plate sizes **A**, KERN EMB-A01, **€ 20,-**
- **2 Stainless steel weighing plate**, only for models with weighing plate sizes **B**, KERN EMB-A02, **€ 26,-**
- **Mains adapter external** not included, can be reordered, KERN 440-902, **€ 25,-**

STANDARD



OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
							DKD KERN	€
KERN EMB 100-3	100	0,001	0,001	± 0,003	A	180,-	963-127	65,-
KERN EMB 200-3	200	0,001	0,001	± 0,003	A	205,-	963-127	65,-
KERN EMB 200-2	200	0,01	0,01	± 0,02	B	110,-	963-127	65,-
KERN EMB 600-2	600	0,01	0,01	± 0,03	B	145,-	963-127	65,-
KERN EMB 1000-2	1000	0,01	0,01	± 0,03	C	180,-	963-127	65,-
KERN EMB 2000-2	2000	0,01	0,01	± 0,03	C	205,-	963-127	65,-
KERN EMB 500-1	500	0,1	0,1	± 0,2	C	50,-	963-127	65,-
KERN EMB 1200-1	1200	0,1	0,1	± 0,3	C	70,-	963-127	65,-
KERN EMB 3000-1	3000	0,1	0,1	± 0,3	C	115,-	963-127	65,-
KERN EMB 6000-1	6000	0,1	0,1	± 0,3	C	145,-	963-128	80,-
KERN EMB 2200-0	2200	1	1	± 2	C	50,-	963-127	65,-
KERN EMB 5.2K1	5200	1	1	± 3	C	52,-	963-128	80,-
KERN EMB 5.2K5	5200	5	5	± 10	C	50,-	963-128	80,-

Precision balance KERN EMB-V



02

Entry level laboratory balance with integrated density determination function and simple operation

Features

- **Density determination made easy!** Thanks to the self-explanatory, graphic-assisted control panel, the density of solids and liquids can be determined in seconds, making them ideal for use in schools and universities. Interesting facts about density determination see page 10
- Visualised process means that operating errors are avoided
 - No learning time = reduces costs
 - Ideal for untrained users
- 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 samples/plummetts in air
 - 4 Weighing samples/plummetts in liquid. The density will be shown on the display immediately

- **Hook for underfloor weighing** standard
- **Particularly flat design**
- **Ready for use:** battery (9 V Block) standard. AUTO-OFF function to preserve the batteries, can be switched off
- **Tare function** facilitates formulation work

Technical data

- Large LCD display, digit height 15 mm
- Dimensions of weighing plate, plastic
 - A 82 mm, see larger picture. The illustration shows the EMB 200-3V model with optional density set YDB-01
 - B 150 mm
- Dimensions housing WxDxH 170x240x39 mm
- Net weight approx. 0,5 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- for KERN EMB 200-3V:
- **5 Set for density determination** of liquids and solids with density $\leq 1 \geq$. Scope of supply: Weighing plate, beaker, sample holder, plummet. KERN YDB-01, € 205,-
 - **Calibration certificate for the volume plummet** (20 g), KERN 962-335V, € 141,-
- for KERN EMB 2000-2V:
- **6 Set for density determination** of liquids and solids with density $\leq 1 \geq$. Scope of supply: Weighing plate, beaker, sample holder, plummet. KERN YDB-02, € 310,-
 - **Calibration certificate for the volume plummet** (200 g), KERN 962-338V, € 141,-

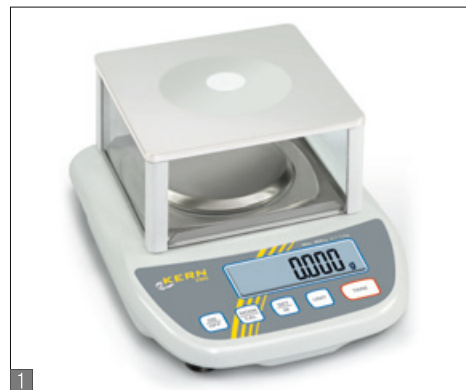
STANDARD



OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
							DKD KERN	€
KERN EMB 200-3V	200	0,001	0,002	$\pm 0,003$	A	225,-	963-127	65,-
KERN EMB 2000-2V	2000	0,01	0,02	$\pm 0,03$	B	225,-	963-127	65,-



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 plastic weighing plate**
- **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**, external test weights at an additional price, see page 133 ff.
- **Draft shield** standard, only for models with weighing plate sizes **A**. Removable metal cover with pipette opening. Weighing space WxDxH 145x145x65 mm

Technical data

- LCD display, digit height 15 mm
- Dimensions of weighing plate (plastic)
 - A** Ø 105 mm
 - B** WxD 160x160 mm, see larger picture
- Dimensions housing WxDxH 200x280x63 mm
- Optional battery operation, battery (9 V Block) not standard, operating time approx. 40 h, AUTO-OFF function to preserve the battery
- Mains adapter external standard
- Net weight approx. 1,4 kg
- Permissible ambient temperature 5 °C / 35 °C

STANDARD



OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
								DKD KERN	€
EMS 300-3	300	0,001	0,002	± 0,005	0,002	A	260,-	963-127	65,-
EMS 3000-2	3000	0,01	0,02	± 0,05	0,02	B	240,-	963-127	65,-
EMS 6K0.1	6000	0,1	0,1	± 0,3	0,2	B	155,-	963-128	80,-
EMS 12K0.1	12000	0,1	0,1	± 0,3	0,2	B	185,-	963-128	80,-
EMS 6K1	6000	1	1	± 3	2	B	65,-	963-128	80,-
EMS 12K1	12000	1	1	± 3	2	B	95,-	963-128	80,-

New model



Low-cost model based on a concept of easy use

Features

- **Concept of easy use:** All primary functions have their own key on the keypad
- **Compact size,** practical for small spaces
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **Level indicator and foot screws** to level the balance precisely, fitted as standard, to give the most accurate weighing results

- **Draft shield** standard for models with weighing plate sizes **A** and **B**. Removable metal cover with pipette opening. weighing space WxDxH 158x143x64 mm
- **Separate second display** standard for models PFB 600-1M and PFB 6000-0M. Suitable for direct sales to the public. The verification value is the same as the readout. Large backlit LCDdisplay, Digit height 16 mm. Interface cable to the balance, Cable length approx. 1 m, and Mains adapter external standard. Dimensions WxDxH 250x180x105 mm

Technical data

- Backlit LCDdisplay, digit height 15 mm
- Dimensions of weighing plate (stainless steel)
 - A** Ø 80 mm, **B** Ø 120 mm
 - C** WxD 155x145 mm, see larger picture
- Overall dimensions (without draft shield) WxDxH 200x260x87 mm
- Net weight approx. 2 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Separate second display**, ideal for training and demonstration purposes in laboratories or in industry, not permitted for direct sales to the public, KERN PFB-A08, € 90,-
- **Suitable printers** see page 130

STANDARD



OPTION



FACTORY

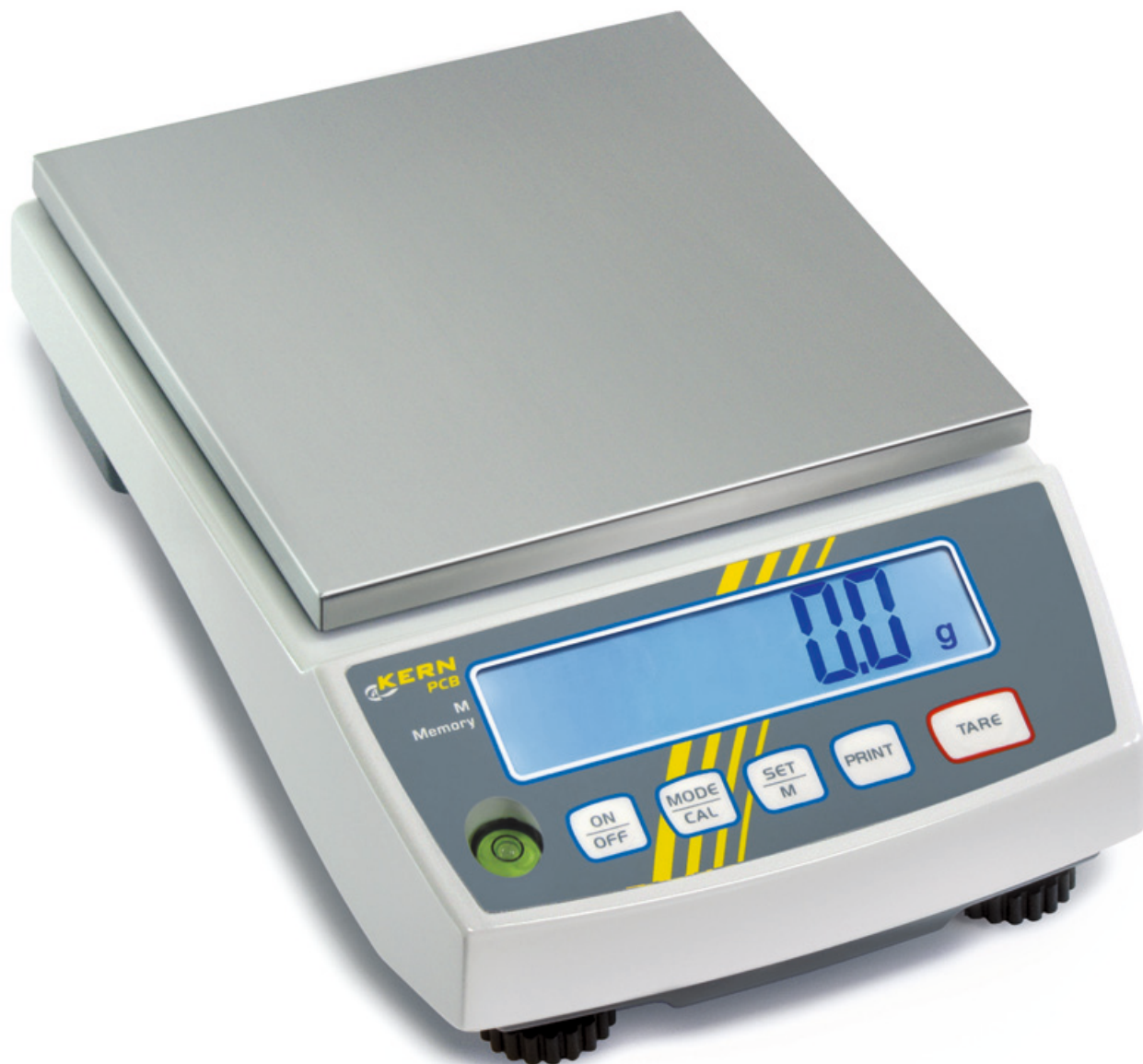


Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option			
								Verification		DKD Calibr. Certificate	
								M II KERN	€	DKD KERN	€
PFB 120-3	120	0,001	-	0,001	± 0,003	A	245,-	-	-	963-127	65,-
PFB 200-3	200	0,001	-	0,001	± 0,003	A	260,-	-	-	963-127	65,-
PFB 300-3	300	0,001	-	0,001	± 0,003	A	285,-	-	-	963-127	65,-
PFB 1200-2	1200	0,01	-	0,01	± 0,03	B	210,-	-	-	963-127	65,-
PFB 2000-2	2000	0,01	-	0,01	± 0,03	B	220,-	-	-	963-127	65,-
PFB 3000-2	3000	0,01	-	0,01	± 0,03	B	250,-	-	-	963-127	65,-
PFB 6K0.05	6000	0,05	-	0,05	± 0,15	C	225,-	-	-	963-128	80,-
PFB 6000-1	6000	0,1	-	0,1	± 0,3	C	200,-	-	-	963-128	80,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

PFB 600-2M	600	0,01	0,1	0,01	± 0,02	B	235,-	965-216	60,-	963-127	65,-
PFB 600-1M	600	0,1	0,1	0,1	± 0,1	B	300,-	965-216	60,-	963-127	65,-
PFB 6000-1M	6000	0,1	1	0,1	± 0,3	C	230,-	965-217	70,-	963-128	80,-
PFB 6000-0M	6000	1	1	1	± 1	C	295,-	965-217	70,-	963-128	80,-

■ New model



The economical solution for the bargain hunter



GLP/ISO record keeping of weighing data, balance adjustment, etc. with date, time and identification no... Ideal for monitoring and documenting your processes in accordance with your quality management system



Piece counting
Thanks to its high level of accuracy, it is ideal for counting the smallest parts



With the **recipe function** you can weigh the different ingredients of a mixture. As a check, you can also recall the total weight of all the ingredients

Precision balance KERN PCB



02

Features

- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Freely programmable weighing unit**, e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar
- **Percentage determination**: makes it possible to store a given weight value (100%) and to determine deviations from this target value
- **Ring-shaped draft shield** standard, only for models with weighing plate sizes **A**, weighing space ØxH 90x40 mm

Technical data

- Backlit LCDdisplay, digit height 15 mm
- Dimensions of weighing plate (stainless steel*)
 - A** Ø 81 mm
 - B** Ø 105 mm*
 - C** WxD 130x130 mm*
 - D** WxD 150x170 mm*, see larger picture
- Optional battery operation, battery (9 V Block) not standard. AUTO-OFF function to preserve the battery, can be switched off
- Overall dimensions (without draft shield) WxDxH 163x245x79 mm
- Net weight approx. 1,1 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover** over keyboard and housing, standard, can be reordered, **€ 25,-** for models with weighing plate sizes
 - A** KERN PCB-A02
 - B** KERN PCB-A03
 - C** KERN PCB-A04
 - D** KERN PCB-A05
- **Hook for underfloor weighing** to weigh hanging loads, standard, can be reordered, KERN 440-A01, **€ 22,-**
- **Rechargeable battery pack internal**, can be reordered, operating time up to 48 h without backlight, charging time approx. 8 h. AUTO-OFF function to preserve the battery, can be switched off, KERN PCB-A01, **€ 55,-**
- **Software Balance Connection**, details see page 131, KERN SCD-4.0, **€ 150,-**
- **Individual header data**: the free software KERN SHM-01 can be used to print 4 header lines on the printout for printers 911-013 and YKB-01N
- **Suitable printers** see page 130

STANDARD



only with printer

OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
									DKD KERN	€
PCB 100-3	100	0,001	0,001	± 0,003	0,002	1,1	A	255,-	963-127	65,-
PCB 250-3	250	0,001	0,001	± 0,003	0,002	1,1	A	295,-	963-127	65,-
PCB 350-3	350	0,001	0,002	± 0,004	0,002	1,1	A	305,-	963-127	65,-
PCB 200-2	200	0,01	0,01	± 0,02	0,02	1,1	B	215,-	963-127	65,-
PCB 1000-2	1000	0,01	0,01	± 0,03	0,02	1,4	C	245,-	963-127	65,-
PCB 2500-2	2500	0,01	0,01	± 0,03	0,02	1,4	C	295,-	963-127	65,-
PCB 3500-2	3500	0,01	0,02	± 0,04	0,02	1,4	C	305,-	963-127	65,-
PCB 1000-1	1000	0,1	0,1	± 0,2	0,2	1,4	C	170,-	963-127	65,-
PCB 2000-1	2000	0,1	0,1	± 0,2	0,2	1,4	C	200,-	963-127	65,-
PCB 6000-1	6000	0,1	0,1	± 0,3	0,2	2	D	225,-	963-128	80,-
PCB 10000-1	10000	0,1	0,1	± 0,3	0,2	2	D	230,-	963-128	80,-
PCB 6000-0	6000	1	1	± 2	2	2	D	120,-	963-128	80,-



High resolution precision balance with removable display device for maximum flexibility

Features

- **Laboratory balance with separate platform:** Ideal when working in the 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 directly in special units such as length of thread g/m, paper weight g/m², or similar
- **Level indicator and foot screws** to level the balance precisely, fitted as standard, to give the most accurate weighing results

- **Draft shield** standard for models with weighing plate sizes **A**, weighing space WxDxH 146x146x70 mm

Technical data

- Backlit LCDdisplay, digit height 21 mm
- Dimensions of weighing plate
A Ø 105 mm
B WxD 160x160 mm, see larger picture
- Optional battery operation, 9 V Block, not included, operating time approx. 12 h. AUTO-OFF function to preserve the battery
- Overall dimensions WxDxH 165x280x73 mm
- Cable length of display device approx. 1,5 m
- Net weight approx. 1,1 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **1 Stand** to elevate display device, height of stand approx. 250 mm, KERN PCD-A03, € 40,-
- **2 Foot switch**, ideal, when the application requires two free hands. TARE or PRINT function can be selected. Scope of supply: junction box, Connection cable. For the PRINT function you will need the RS-232 interface cable, see page 131, KERN YKF-01, € 70,-
- **Rechargeable battery pack internal**, operating time up to 48 h without backlight, charging time approx. 8 h. AUTO-OFF function to preserve the battery, can be switched off, KERN PCD-A04, € 50,-
- **Suitable printers** see page 130

STANDARD

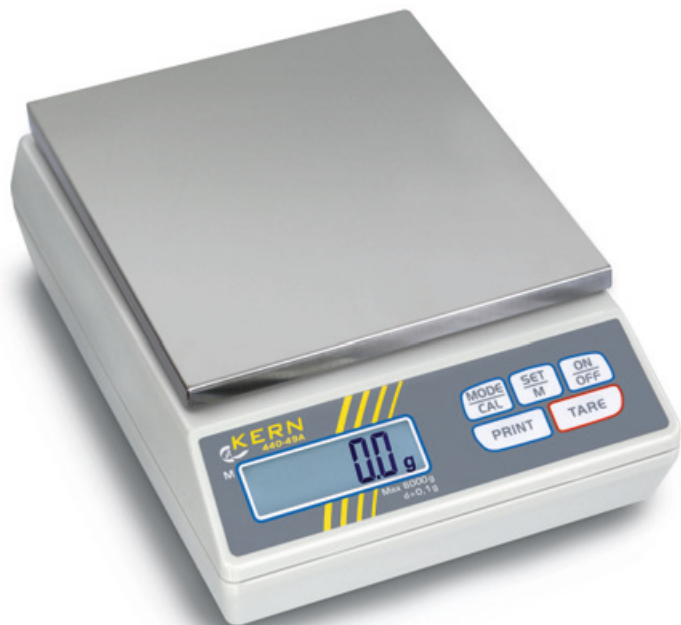


OPTION



only with printer

Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
								DKD KERN	€
PCD 250-3	250	0,001	0,002	± 0,005	0,002	A	320,-	963-127	65,-
PCD 2500-2	2500	0,01	0,02	± 0,05	0,02	B	305,-	963-127	65,-
PCD 10K0.1	10000	0,1	0,1	± 0,3	0,2	B	235,-	963-128	80,-



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
- **Ring-shaped draft shield** standard, only for models with weighing plate sizes **A**, weighing space ØxH 90x40 mm

Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions of weighing plate (stainless steel*)
 - A** 81 mm
 - B** 105 mm*
 - C** 130x130 mm*
 - D** 150x170 mm*, see larger picture
- Optional battery operation, 9 V Block, not included. AUTO-OFF function to preserve the battery
- Overall dimensions (without draft shield) WxDxH 165x230x80 mm
- Net weight approx. 1 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover** over keyboard and housing, standard, can be reordered **€ 26,-** for models with weighing plate sizes
 - A** KERN 440-210-002
 - B** KERN 440-330-002
 - C** KERN 440-450-002
 - D** KERN 440-530-002
- **Rechargeable battery pack internal**, operating time up to 20 h, charging time approx. 10 h, KERN FCB-A01, **€ 45,-**
- **Second display**, KERN YKD-A01, **€ 95,-**
- **Individual header data**: the free software KERN SHM-01 can be used to print 4 header lines on the printout for printers 911-013 and YKB-01N
- **Hook for underfloor weighing** to weigh hanging loads, standard, can be reordered, KERN 440-A01, **€ 22,-**
- **Suitable printers** see page 130

STANDARD



only with printer

OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Price excl. of VAT ex works €	Option	
								DKD Calibr. Certificate	€
KERN								DKD KERN	
440-21A	60	0,001	0,001	± 0,003	0,002	A	350,-	963-127	65,-
440-33N	200	0,01	0,01	± 0,02	0,02	B	290,-	963-127	65,-
440-35N	400	0,01	0,01	± 0,03	0,02	B	330,-	963-127	65,-
440-35A	600	0,01	0,01	± 0,03	0,02	B	365,-	963-127	65,-
440-43N	400	0,1	0,1	± 0,2	0,2	C	185,-	963-127	65,-
440-45N	1000	0,1	0,1	± 0,2	0,2	C	245,-	963-127	65,-
440-47N	2000	0,1	0,1	± 0,2	0,2	C	270,-	963-127	65,-
440-49N	4000	0,1	0,1	± 0,3	0,2	D	330,-	963-127	65,-
440-49A	6000	0,1	0,1	± 0,3	0,2	D	365,-	963-128	80,-
440-51N	4000	1	1	± 2	2	D	160,-	963-127	65,-
440-53N	6000	1	1	± 2	2	D	180,-	963-128	80,-

Precision balance KERN PLE-N

02

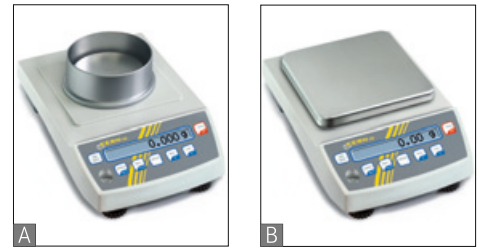


Low-cost precision balance with wide range of functions

<p>Features</p> <ul style="list-style-type: none"> • Compact size, practical for small spaces • Piece counting: Reference quantities selectable. Display can be switched from piece to weight. • Weighing sum memory adds individual weighing results • Glass draught guard, standard for models with weighing plate sizes A. Removable metal cover with pipette opening. weighing space ØxH 125x70 mm • Suspended weighing: load support with hook on the underside of the balance (only KERN PLE 4200-2N) 	<p>Technical data</p> <ul style="list-style-type: none"> • Backlit LCD display, digit height 15 mm • Dimensions of weighing plate (stainless steel) <ul style="list-style-type: none"> A Ø 80 mm B Ø 135 mm, see larger picture • Dimensions housing WxDxH 185x250x80 mm • Net weight approx. 2,5 kg • Permissible ambient temperature 10 °C / 30 °C 	<p>Accessories</p> <ul style="list-style-type: none"> • Rechargeable battery pack internal, operating time approx. 30 h without backlight, charging time approx. 10 h. Charge condition indicator on display, KERN PLE-A06, € 30,- • Set for density determination of liquids and solids with density $\leq 1 \geq$, similar to illustration. on all models with readout $d = 0,001 \text{ g}$, KERN ALT-A02, € 690,- • Suitable printers see page 130
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STANDARD										OPTION			
only with printer													

Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
								DKD KERN	€
PLE 420-3N	420	0,001	0,002	± 0,004	0,005	A	370,-	963-127	65,-
PLE 4200-2N	4200	0,01	0,02	± 0,04	0,05	B	370,-	963-127	65,-



Convenient model at a basic price, also with EC type approval [M]

Features

- **User guidance step by step** through Yes/No dialogue on the display
- **Percentage determination:** parts taken out of a container which is on the weighplate can be displayed as a percentage. Convenient when carrying out drying processes, during which the evaporated moisture or the remaining weight can be displayed as a percentage
- **Freely programmable weighing unit,** e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar
- **Ring-shaped draft shield** standard, only for models with weighing plate sizes **A**, weighing space ØxH 90x40 mm

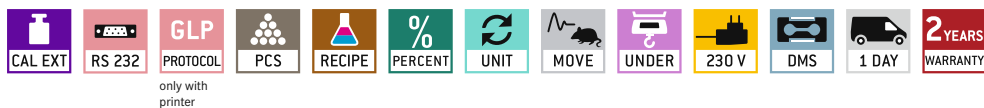
Technical data

- Backlit LCDdisplay, digit height 9 mm
- Dimensions of weighing plate (stainless steel*)
 - A** Ø 81 mm
 - B** Ø 130x130 mm*
 - C** WxD 150x170 mm*, see larger picture
- Overall dimensions without draft shield WxDxH 167x250x85 mm
- Net weight approx. 1,1 kg
- Permissible ambient temperature KERN KB-N: 10°C / 40 °C
KERN KB-NM: 10°C / 30 °C

Accessories

- **Protective working cover** over keyboard and housing, standard, can be reordered, **€ 25,-** for models with weighing plate sizes
 - A** KERN PCB-A02
 - B** KERN PCB-A04
 - C** KERN PCB-A05
- **Rechargeable battery pack internal,** operating time approx. 15 h, charging time approx. 10 h, KERN KB-A01N, **€ 45,-**
- **Rechargeable battery pack external,** operating time up to 15 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **Suitable printers** see page 130

STANDARD



OPTION



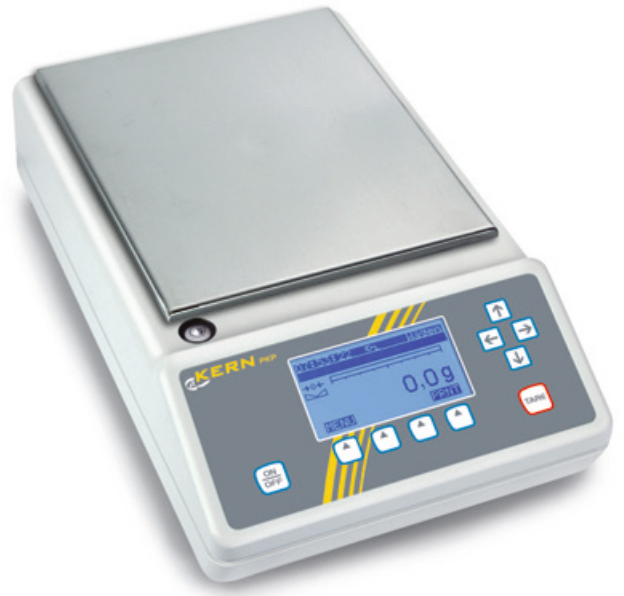
FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option			
								Verification		DKD Calibr. Certificate	
								M II KERN	€	DKD KERN	€
KB 120-3N	120	0,001	-	0,001	± 0,003	A	270,-	-	-	963-127	65,-
KB 240-3N	240	0,001	-	0,001	± 0,003	A	280,-	-	-	963-127	65,-
KB 360-3N	360	0,001	-	0,001	± 0,005	A	300,-	-	-	963-127	65,-
KB 1200-2N	1200	0,01	-	0,01	± 0,03	B	270,-	-	-	963-127	65,-
KB 2000-2N	2000	0,01	-	0,01	± 0,03	B	280,-	-	-	963-127	65,-
KB 2400-2N	2400	0,01	-	0,01	± 0,03	B	290,-	-	-	963-127	65,-
KB 3600-2N	3600	0,01	-	0,01	± 0,05	B	300,-	-	-	963-127	65,-
KB 10K0.05N	10000	0,05	-	0,05	± 0,15	C	290,-	-	-	963-128	80,-
KB 10000-1N	10000	0,1	-	0,1	± 0,3	C	270,-	-	-	963-128	80,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
KB 650-2NM	650	0,01	0,1	0,01	± 0,03	B	320,-	950-116	60,-	963-127	65,-
KB 6500-1NM	6500	0,1	1	0,1	± 0,2	C	320,-	950-117	70,-	963-128	80,-



KERN PKS



KERN PKP

Two laboratory specialists with clear graphics display for the most simple user guidance



Large backlit graphic display

All relevant information for the mode you are using is displayed clearly, at a glance and assigned to the keys are assigned on the keyboard overlay

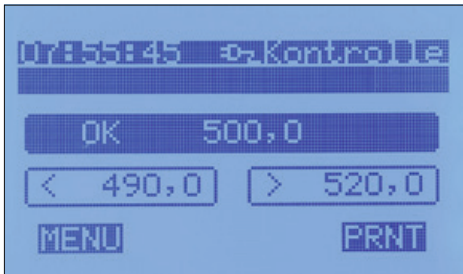


Clear menu structure with plain text labels on the display

The menu and processes are self-explanatory. This reduces the training times, avoids operating errors and in this way, ensures more efficient, rapid operation

Functions:

- Capacity display
- Dispensing assistance (subtractive, additive)
- Piece counting with reference
- Automatic reference optimisation
- Tare deduction from the memory unit
- Input of item or batch description, operator etc. from the memory unit
- Freely programmable weighing unit, e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar
- Date/time in the display
- Individual printout configuration



Weighing with tolerance range

(checkweighing): Input of an upper/lower limit value. A visual signal assists with portion division, dispensing or grading



Convenient recipe weighing

you can save up to 5 complete recipes in the memory with up to 7 components of a mixture. The individual components of a mixture can be printed out clearly with the name, weight and grand total



GLP/ISO record keeping of weighing data, balance adjustment, etc. with date, time and identification no... Ideal for monitoring and documenting your processes in accordance with your quality management system

Precision balances KERN PKS · PKP



02

General features

- On the basis of the KERN KB and KERN 572 bestsellers, many of your typical laboratory functions have been expanded to include a clear graphics screen, which processes the relevant information visually and makes it significantly easier to operate and read the weights off the display
- **1 Navigation pad** for super quick navigation through the menus
- **40 memories for each mode**

Features PKS

- **High mobility:** (laboratory, production, quality testing, commissioning,...)
- **Ring-shaped draft shield** standard for models with weighing plate sizes **A**, weighing space ØxH 90x53 mm

Technical data PKS

- Back-lit LCD graphic display, screen diagonal 3,2" (approx. 81 mm)
- Dimensions of weighing plate:
 - A** Ø 81 mm
 - B** WxD 130x130 mm

- **C** WxD 150x170 mm, see larger picture
- Dimensions housing WxDxH 167x250x85 mm
- Permissible ambient temperature 10 °C / 40 °C

Features PKP

- **Robust metal housing**, ensures stability, protects the weighing technology elements and is robust enough to cope with everyday use
- **Ring-shaped draft shield** standard for models with weighing plate sizes **D**, weighing space ØxH 157x57 mm

Technical data PKP

- Back-lit LCD graphic display, screen diagonal 3,2" (approx. 81 mm)
- Dimensions of weighing plate:
 - D** Ø 106 mm
 - E** Ø 150 mm
 - F** WxD 160x200 mm, see larger picture
- Dimensions housing WxDxH 180x310x85 mm
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing, standard, can be reordered, **€ 25,-** for KERN PKP with weighing plate sizes **A** KERN PCB-A02 **B** KERN PCB-A04 **C** KERN PCB-A05 for KERN PKP: **D** - **F** KERN 572-A02
- **2 Rechargeable battery pack internal**, only for KERN PKS, operating time up to 10 h, charging time approx. 10 h, KERN KB-A01N, **€ 45,-**
- **Rechargeable battery pack external** operating time up to 40 h, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- **3 Large glass draught shield** with 3 sliding doors for easy access to the items being weighed, only for KERN PKP with weighing plate sizes **D**. Weighing space WxDxH 150x140x130 mm, KERN 572-A05, **€ 160,-**
- **Suitable printers** see page 130

STANDARD



OPTION

Model	Weighing range [Max]	Readout [d]	Reproducibility	Linearity	Min. piece weight [PW min] g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
									DKD KERN	€
KERN PKS 200-3	200	0,001	0,001	± 0,003	0,001	1,1	A	380,-	963-127	65,-
KERN PKS 360-3	360	0,001	0,002	± 0,005	0,001	1,1	A	390,-	963-127	65,-
KERN PKS 2000-2	2000	0,01	0,01	± 0,03	0,01	1,5	B	380,-	963-127	65,-
KERN PKS 3600-2	3600	0,01	0,02	± 0,05	0,01	1,5	B	390,-	963-127	65,-
KERN PKS 10K0.1	10000	0,1	0,1	± 0,3	0,1	1,7	C	360,-	963-128	80,-
KERN PKP 300-3	300	0,001	0,002	± 0,005	0,001	2,3	D	520,-	963-127	65,-
KERN PKP 420-3	420	0,001	0,002	± 0,005	0,001	2,3	D	540,-	963-127	65,-
KERN PKP 3000-2	3000	0,01	0,02	± 0,05	0,01	2,3	E	520,-	963-127	65,-
KERN PKP 4200-2	4200	0,01	0,02	± 0,05	0,01	2,3	E	540,-	963-127	65,-
KERN PKP 12K0.05	12000	0,05	0,05	± 0,15	0,05	2,7	F	510,-	963-128	80,-
KERN PKP 16K0.1	16000	0,1	0,1	± 0,3	0,1	2,7	F	490,-	963-128	80,-
KERN PKP 24K0.1	24000	0,1	0,1	± 0,3	0,1	2,7	F	510,-	963-128	80,-



02

All-rounder e.g. as laboratory, counting or checking balance, also with EC type approval [M]

Features

- Thanks to the many typical laboratory functions, such as, for example, recipe function, percentage determination, GLP record keeping, 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 with an aluminium diecast housing, typical industrial functions, such as piece-counting, vibration-free weighing and the large weighing ranges also make these balances ideal for all industrial applications, where a high level of precision is required

- The robust metal housing maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- Only 572: **Ring-shaped draft shield** standard (Weighing plate **A**), weighing space ØxH 157x43 mm
- **1 UNITS:** Further weighing units see the internet (only 572)

Technical data

- Large backlit LCDdisplay, digit height 18 mm
- Dimensions of weighing plate (stainless steel)
 - A** Ø 106 mm
 - B** Ø 150 mm
 - C** WxD 160x200 mm, see larger picture
- Overall dimensions WxDxH 180x310x130 mm
- Permissible ambient temperature
 - KERN 572: 10 °C / 40 °C
 - KERN 573: 10 °C / 30 °C

Accessories

- **Protective working cover** standard, can be reordered, KERN 572-A02, € 25,-
- **2 Only 572: Rechargeable battery pack external**, operating time up to 25 h, charging time approx. 10 h, KERN KS-A01, € 180,-
- **3 Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space WxDxH 150x140x130 mm (only for models with weighing plate sizes **A**), KERN 572-A05, € 160,-
- **Suitable printers** see page 130

STANDARD

only with printer **1**

OPTION

FACTORY

only 573

Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Linearity g	Reproducibility g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option			
									Verification		DKD Calibr. Certificate	
									M II KERN	€	DKD KERN	€
572-30	240	0,001	-	± 0,003	0,001	2,3	A	450,-	-	-	963-127	65,-
572-31	300	0,001	-	± 0,005	0,001	2,3	A	450,-	-	-	963-127	65,-
572-32	420	0,001	-	± 0,005	0,002	2,3	A	470,-	-	-	963-127	65,-
572-33	1600	0,01	-	± 0,03	0,01	2,3	B	420,-	-	-	963-127	65,-
572-35	2400	0,01	-	± 0,03	0,01	2,3	B	430,-	-	-	963-127	65,-
572-37	3000	0,01	-	± 0,05	0,01	2,3	B	430,-	-	-	963-127	65,-
572-39	4200	0,01	-	± 0,05	0,02	2,3	B	450,-	-	-	963-127	65,-
572-45	12000	0,05	-	± 0,15	0,05	2,7	C	430,-	-	-	963-128	80,-
572-55	20000	0,05	-	± 0,15	0,1	2,7	C	450,-	-	-	963-128	80,-
572-43	10000	0,1	-	± 0,3	0,1	2,3	C	420,-	-	-	963-128	80,-
572-49	16000	0,1	-	± 0,3	0,1	2,7	C	420,-	-	-	963-128	80,-
572-57	24000	0,1	-	± 0,3	0,1	2,7	C	430,-	-	-	963-128	80,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
573-34NM	650	0,01	0,1	± 0,02	0,01	2,3	B	480,-	950-116	60,-	963-127	65,-
573-46NM	6500	0,1	1	± 0,2	0,1	2,7	C	480,-	950-117	70,-	963-128	80,-



02

Verifiable entry level model in the upper laboratory class with EC type approval [M]

Features

- **Very fast display:** steady weight values within 2 sec
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **Precise counting:** The automatic optimisation of reference weight gradually improves the average value of the piece weight, counting resolution up to 62.000 points
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual signal assists with portion division, dispensing or grading

Technical data

- Large LCD display, digit height 17 mm
- Dimensions of weighing plate (stainless steel)
 - A Ø 140 mm, see larger picture
 - B WxD 180x160 mm
- Dimensions housing WxDxH 182x235x75 mm
- Net weight approx. 1,1 kg
- Permissible ambient temperature 10 °C / 30 °C

Accessories

- **Protective working cover** over keyboard and housing standard, can be reordered, KERN EG-A05, € 25,-
- **Rechargeable battery pack internal**, operating time up to 32 h, charging time approx. 10 h, can be reordered, KERN EWB-A01, € 105,-
- **Loop for underfloor weighing**, KERN EG-A07, € 36,-

STANDARD

OPTION

FACTORY

Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option			
								Verification		DKD Calibr. Certificate	
								M II KERN	€	DKD KERN	€
EWB 220-2M	220	0,01	0,01	0,01	0,01	A	290,-	-	-	963-127	65,-
EWB 620-2M	620	0,01	0,1	0,01	0,01	A	530,-	965-216	60,-	963-127	65,-
EWB 1200-1M	1200	0,1	0,1	0,1	0,1	B	290,-	-	-	963-127	65,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

ONLY WHILE STOCKS LAST



Verifiable gold and laboratory balance with EC type approval [M]

Features

- **Short stabilisation time:** Steady weight values within approx. 2 sec
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **Ring-shaped draft shield** standard, only for models with weighing plate sizes **A**, weighing space ØxH 155x57 mm

Technical data

- Large LCD display, digit height 17 mm
- Dimensions of weighing plate (stainless steel)
 - A** Ø 110 mm
 - B** Ø 140 mm
 - C** WxD 172x142 mm, see larger picture
- Overall dimensions (without draft shield) WxDxH 177x230x88 mm
- Net weight approx. 1,7 kg
- Permissible ambient temperature 10 °C / 30 °C

Accessories

- **Protective working cover** over keyboard and housing standard, can be reordered, KERN EG-A02, € 25,-
- **1 Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space WxDxH 150x140x130 mm (only KERN EW 150-3M), KERN EG-A01, € 170,-
- **2 Rechargeable battery pack internal**, operating time up to 32 h, charging time approx. 12 h, AUTO-OFF function to preserve the battery, KERN EW-A02, € 100,-
- **3 Data interface**, KERN EW-A01, € 120,-
- **2 3** only one option possible
- **Suitable printers** see page 130

STANDARD



OPTION



FACTORY

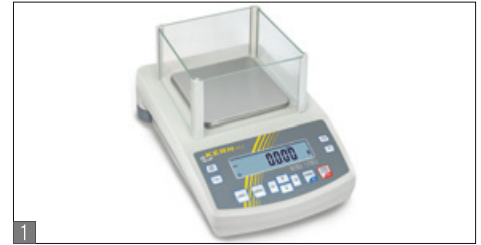


Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option			
								Verification		DKD Calibr. Certificate	
								MII KERN	€	DKD KERN	€
EW 150-3M	150	0,001	0,01	0,002	± 0,003	A	610,-	-	-	963-127	65,-
EW 600-2M	600	0,01	0,1	0,01	± 0,02	B	580,-	965-216	60,-	963-127	65,-
EW 1500-2M	1500	0,01	0,1	0,01	± 0,02	B	630,-	-	-	963-127	65,-
EW 3000-2M	3000	0,01	0,1	0,01	± 0,02	B	740,-	-	-	963-127	65,-
EW 6000-1M	6000	0,1	1	0,1	± 0,2	C	580,-	965-217	70,-	963-128	80,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

ONLY WHILE STOCKS LAST

Precision balance KERN PLJ-N



02

Excellent performance at a very reasonable price, with EC type approval [M]

Features

- **Automatic internal adjustment** in the case of a change in temperature ≥ 3 °C or time-controlled every 3 hours
- **Draft shield** standard (on all models with readout $d = 0,001$ g). weighing space $W \times D \times H$ 140x140x65 mm

- **Rechargeable battery pack internal**, standard, operating time approx. 35 h, charging time approx. 12 h
- **Weighing with tolerance range (checkweighing)**: Input of an upper/lower limit value. A visual signal assists with portion division, dispensing or grading

- Overall dimensions $W \times D \times H$ without draft shield 206x335x85 mm incl. draft shield 206x335x157 mm
- Net weight approx. 3,6 kg (incl. draft shield approx. 4 kg)
- Permissible ambient temperature 15 °C / 30 °C

Characteristics KERN PLJ-NM:

- **Weighing principle**: Force compensation

Characteristics KERN PLJ-GM:

- **Weighing principle**: Strain gauge
- **Ergonomically optimised keypad** for left and righthanded users

Technical data

- Backlit LCDdisplay
PLJ-N, -NM: digit height 17 mm
PLJ-GM: digit height 19 mm
- Dimensions of weighing plate (stainless steel) $W \times D$
A 128x128 mm
B 195x195 mm, see larger picture

Accessories

- **Protective working cover** standard, can be reordered, KERN ALS-A02, € 25,-
- **Set for density determination** of liquids and solids with density ≤ 1 , only suitable for models with readout $d = 0,001$ g (PLJ-N). The density is indicated directly on the display, sim. to illustration, KERN PLS-A01, € 530,-
- **Suitable printers** see page 130

STANDARD



OPTION



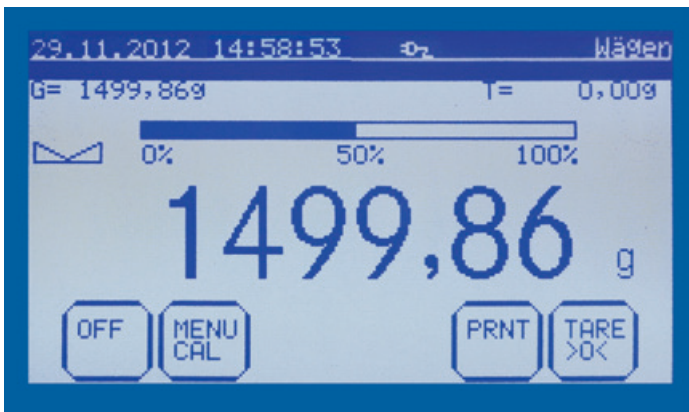
FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Price excl. of VAT ex works €	Option			
									Verification		DKD Calibr. Certificate	
KERN									MII KERN	€	DKD KERN	€
PLJ 750-3N	750	0,001	-	0,002	$\pm 0,003$	0,005	A	690,-	-	-	963-127	65,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
PLJ 360-3NM	360	0,001	0,01	0,001	$\pm 0,004$	0,005	A	670,-	965-216	60,-	963-127	65,-
PLJ 600-3NM	600	0,001	0,01	0,002	$\pm 0,004$	0,005	A	690,-	965-216	60,-	963-127	65,-
PLJ 600-2GM	600	0,01	0,1	0,02	$\pm 0,02$	0,05	A	490,-	965-216	60,-	963-127	65,-
PLJ 3500-2NM	3500	0,01	0,1	0,01	$\pm 0,04$	0,05	B	660,-	965-216	60,-	963-127	65,-
PLJ 6000-1GM	6000	0,1	1	0,2	$\pm 0,2$	0,5	B	490,-	965-217	70,-	963-128	80,-



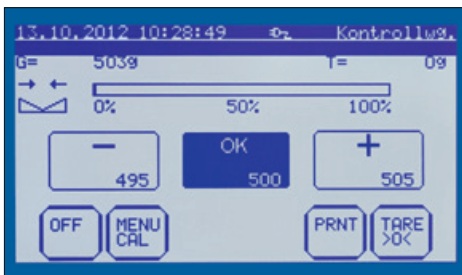
Touchscreen laboratory balance with extensive range of functions



Display at full size, operating mode weighing



Clear menu structure with the keys labelled with plain text and touch-sensitive display
The menu and processes are self-explanatory. This reduces the training times, avoids operating errors and in this way, ensures more efficient functionality



Weighing with tolerance range
(checkweighing), ideal for portion division, dispensing, grading

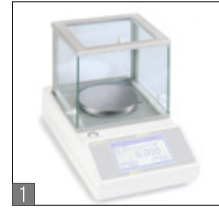


Convenient recipe weighing
you can save up to 5 complete recipes in the memory with up to 7 components of a mixture. The individual components of a mixture can be printed out clearly with the name, weight and grand total



Easy input of text and values
e.g. item descriptions, user name, weights for tare containers, etc. using large keypad

Precision balance KERN PKT



02

Features

- Innovative touchscreen:** Large touch-sensitive, backlit screen with very good contrast for easy operation and convenient reading
- Maximum transparency:** All function keys are labelled with plain text which ensures that they are easily understood. The menu tree overlay in the info bar allows you to see at a glance which function is currently in use
- Advantages:**
 - No more errors or lost time through keys which have several functions or unclear markings
 - Large keys, which can also be operated while wearing gloves
 - Clearly structured menu - to guide you intuitively through the large number of operating modes and functions
- Robust metal housing,** ensures stability, protects the weighing technology elements and is robust enough to cope with everyday use
- Ring-shaped draft shield** standard for models with weighing plate sizes **A**, weighing space $\varnothing \times H$ 157x57 mm

Technical data

- Large backlit LCD touch display, digit height 15 mm, screen diagonal 4,3" (approx. 109 mm), WxH 91x54 mm

- Dimensions of weighing plate (stainless steel)
 - A** \varnothing 106 mm
 - B** \varnothing 150 mm
 - C** WxD 160x200 mm, see larger picture
- Overall dimensions WxDxH 180x310x90 mm
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- Protective working cover** standard, can be reordered, KERN 572-A02, **€ 25,-**
- Rechargeable battery pack external,** operating time approx. 15 h, charging time approx. 10 h, KERN KS-A01, **€ 180,-**
- Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space WxDxH 150x140x130 mm (only for models with weighing plate sizes **A**), KERN 572-A05, **€ 160,-**
- Set for density determination** of liquids and solids with density $\leq 1 \geq$,
 - 2** for models with weighing plate sizes **A**, KERN YDK-01, **€ 205,-**
 - 3** for models with weighing plate sizes **B**, KERN YDK-02, **€ 310,-**
- RS-232/Ethernet adapter,** to connect balances with an RS 232 interface to a network, using Ethernet, details see page 131, KERN YKI-01, **€ 390,-**
- Suitable printers** see page 130

Modes

- ① Weighing
- ② Counting
- ③ Dispensing
- ④ Recipe weighing
- ⑤ Checkweighing
- ⑥ Totalizing with daily total
- ⑦ Percentage determination
- ⑧ Animal weighing
- ⑨ Surface weight
- ⑩ Density determination, only with **A**, **B**
- ⑪ Rapid mode

Functions

- Capacity display, with ① - ②, ⑦, ⑨ - ⑪
- Dispensing assistance (subtractive, additive), with ①, ④
- Net/Gross display, permanently on, with ① - ⑩
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- Tare deduction numerical or from the memory unit, with ① - ⑩
- Input of item or batch description, operator etc., with ① - ⑩
- Freely programmable weighing unit, e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar, with ①, ⑨
- Date/time, with ① - ⑩
- Statistical function, with ①, ③, ⑤
- GLP printout, with ① - ⑩
- Individual printout configuration, with ① - ⑩

STANDARD



OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
									DKD KERN	€
PKT 300-3	300	0,001	0,002	± 0,005	0,001	2,3	A	840,-	963-127	65,-
PKT 420-3	420	0,001	0,002	± 0,005	0,001	2,3	A	870,-	963-127	65,-
PKT 3000-2	3000	0,01	0,02	± 0,05	0,01	2,3	B	840,-	963-127	65,-
PKT 4200-2	4200	0,01	0,02	± 0,05	0,01	2,3	B	870,-	963-127	65,-
PKT 12K0.05	12000	0,05	0,05	± 0,15	0,05	2,7	C	720,-	963-128	80,-
PKT 16K0.1	16000	0,1	0,1	± 0,3	0,1	2,7	C	720,-	963-128	80,-
PKT 24K0.1	24000	0,1	0,1	± 0,3	0,1	2,7	C	750,-	963-128	80,-



Excellent performance, excellent price -
also with internal adjustment



GLP/ISO record keeping of weighing data, balance adjustment, etc. with date, time and identification no... Ideal for monitoring and documenting your processes in accordance with your quality management system



Piece counting
Thanks to its high level of accuracy, it is ideal for counting the smallest parts



Percentage determination: parts taken out of a container which is on the weighplate can be displayed as a percentage. Convenient when carrying out drying processes, during which the evaporated moisture or the remaining weight can be displayed as a percentage

Precision balance KERN PLS · PLJ



02

Features

- **1 Ergonomically optimised keypad** for left and righthanded users
- **Glass draught guard**, standard for models with weighing plate sizes **A**. Removable metal cover with pipette opening. weighing space ØxH 150x60 mm
- **2 KERN PLJ: Automatic internal adjustment**
- **3 KERN PLS: Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see page 133 ff.

Technical data

- Backlit LCDdisplay, digit height 17 mm
- Dimensions of weighing plate (stainless steel)
 - A** Ø 110 mm
 - B** Ø 160 mm, see larger picture
 - C** WxD 200x175 mm
- Overall dimensions WxDxH
 - without draft shield: 210x340x100 mm
 - with draft shield: 210x340x160 mm
- **4** KERN PLS/PLJ-F: Strain gauge
- **5** KERN PLS/PLJ-A: Force compensation
- Net weight approx. 4,5 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover** standard, can be reordered, KERN PLJ-A01, € 25,-
- **Hook for underfloor weighing** to weigh hanging loads, only for PLS-F and PLJ-A, KERN PLJ-A02, € 20,-
- **Set for density determination** of liquids and solids with density $\leq 1 \geq$
 - on all models with readout d = 0,001 g, KERN ALT-A02, € 690,-
 - on all models with readout d = 0,01 g, KERN PLT-A01, € 690,-
- **Suitable printers** see page 130

STANDARD



OPTION



Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Net weight approx. kg	Price excl. of VAT ex works €	Option			
										Verification		DKD Calibr. Certificate	
										W II KERN	€	DKD KERN	€
PLS 420-3F	420	0,001	-	0,001	± 0,004	0,005	A	4	480,-	-	-	963-127	65,-
PLS 720-3A	720	0,001	-	0,001	± 0,002	0,005	A	4,5	810,-	-	-	963-127	65,-
PLS 1200-3A	1200	0,001	-	0,001	± 0,003	0,005	A	4,5	840,-	-	-	963-127	65,-
PLS 4200-2F	4200	0,01	-	0,01	± 0,04	0,05	B	4	480,-	-	-	963-127	65,-
PLS 6200-2A	6200	0,01	-	0,01	± 0,03	0,05	B	4,5	810,-	-	-	963-128	80,-
PLS 20000-1F	20000	0,1	-	0,1	± 0,4	0,5	C	4	510,-	-	-	963-128	80,-
PLJ 420-3F	420	0,001	-	0,001	± 0,003	0,005	A	4	590,-	-	-	963-127	65,-
PLJ 1200-3A	1200	0,001	-	0,001	± 0,003	0,005	A	4,5	990,-	-	-	963-127	65,-
PLJ 4200-2F	4200	0,01	-	0,02	± 0,04	0,05	B	4	590,-	-	-	963-127	65,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.													
PLJ 720-3A	720	0,001	0,01	0,001	± 0,002	0,05	A	4,5	890,-	on request	on request	963-127	65,-
PLJ 6200-2A	6200	0,01	0,1	0,01	± 0,02	0,05	B	4,5	950,-	on request	on request	963-128	80,-



Top of the range cost-effectiveness,
with EC type approval [M]



GLP/ISO record keeping of weighing data, balance adjustment, etc. with date, time and identification no... Ideal for monitoring and documenting your processes in accordance with your quality management system

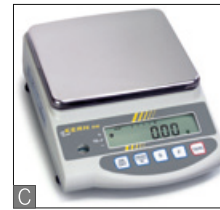
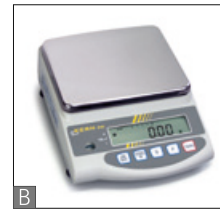


Percentage determination: makes it possible to store a given weight value (100%) and to determine deviations from this target value



Weighing with tolerance range (checkweighing): a visual signal helps with portion division, dispensing or grading

Precision balance KERN EW-N · EG-N



Features

- **1** only EG-NM: **Internal adjustment (CAL) by rotary knob** on the side. Guarantees high degree of accuracy and makes the location irrelevant
- **2** only EW-NM: **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see page 133 ff.
- **Capacity display:** A bar lights up to show how much of the weighing range is still available
- **Precise counting:** The automatic optimisation of reference weight gradually improves the average value of the piece weight
- **Draft shield** standard for models with weighing plate sizes **A**. Removable metal cover with pipette opening, weighing space WxDxH 158x130x78 mm

Technical data

- Large LCD display, digit height 17 mm
- Dimensions of weighing plate (stainless steel)
 - A** 118 mm, see larger picture
 - B** 170x142 mm
 - C** 180x160 mm
- Overall dimensions (without draft shield) WxDxH
 - A, B** 182x235x75 mm
 - C** 192x265x87 mm
- Net weight approx. 1,3 kg
- Permissible ambient temperature 10 °C / 30 °C

Accessories

- **Protective working cover** over keyboard and housing, standard, can be reordered. For models with weighing plate sizes **A, B** KERN EG-A05, € 25,-
C KERN EG-A09, € 25,-
- **Rechargeable battery pack internal**, operating time up to 32 h, charging time approx. 12 h. Charge condition indicator on display. AUTO-OFF function to preserve the battery, can be switched off. For models with weighing plate sizes **A, B** KERN EG-A04, € 100,-
C KERN EG-A06, € 100,-
- **B Large glass draught shield** with 3 sliding doors for easy access to the items being weighed, Weighing space WxDxH 150x140x130 mm, can be reordered for models with weighing plate sizes **A**, KERN EG-A03, € 170,-
- **Loop for underfloor weighing**, for models with weighing plate sizes **A, B** KERN EG-A07, € 36,-
C KERN EG-A08, € 36,-
- **Suitable printers** see page 130

STANDARD



OPTION



STANDARD



OPTION

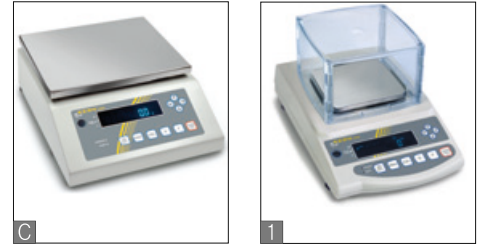


FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option			
								Verification		DKD Calibr. Certificate	
								M KERN	€	DKD KERN	€
EW 220-3NM	220	0,001	0,01	0,001	± 0,002	A	670,-	-	-	963-127	65,-
EW 420-3NM	420	0,001	0,01	0,001	± 0,003	A	750,-	-	-	963-127	65,-
EW 620-3NM	620	0,001	-	0,001	± 0,003	A	850,-	-	-	963-127	65,-
EW 820-2NM	820	0,01	-	0,01	± 0,01	B	580,-	-	-	963-127	65,-
EW 2200-2NM	2200	0,01	0,1	0,01	± 0,01	C	720,-	-	-	963-127	65,-
EW 4200-2NM	4200	0,01	0,1	0,01	± 0,02	C	810,-	-	-	963-127	65,-
EW 6200-2NM	6200	0,01	-	0,01	± 0,03	C	890,-	-	-	963-128	80,-
EW 12000-1NM	12000	0,1	1	0,1	± 0,2	C	690,-	-	-	963-128	80,-
EG 220-3NM	220	0,001	0,01	0,001	± 0,002	A	790,-	965-216 (U)	60,-	963-127	65,-
EG 420-3NM	420	0,001	0,01	0,001	± 0,003	A	880,-	965-216 (U)	60,-	963-127	65,-
EG 620-3NM	620	0,001	0,01	0,001	± 0,004	A	990,-	965-201 (U)	100,-	963-127	65,-
EG 2200-2NM	2200	0,01	0,1	0,01	± 0,01	C	840,-	965-216 (U)	60,-	963-127	65,-
EG 4200-2NM	4200	0,01	0,1	0,01	± 0,02	C	930,-	965-216 (U)	60,-	963-127	65,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.



Robust laboratory and industrial precision balance, with EC type approval [M]

Features

- **2** only PEJ: **Automatic internal adjustment**
- **3** only PES: **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see page 133 ff.
- **Metal housing:** robust and sturdy
- **Weighing with tolerance range (checkweighing):** Input of 2 upper and 2 lower limit values through 4 arrow keys. An audible signal assists with the portion division, dispensing or grading
- **1 Draft shield** standard on all models with readout d = 0,001 g. weighing space WxDxH 170x150x100 mm. Removable metal cover with pipette opening

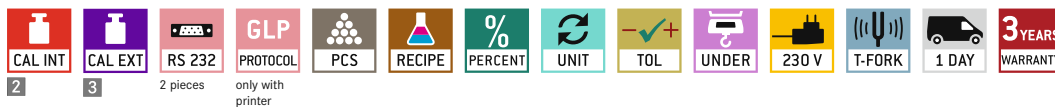
Technical data

- Fluorescent display bright with high contrast, digit height 13 mm
- Dimensions of weighing plate (stainless steel) WxD
 - A** 140x120 mm
 - B** 200x200 mm, see larger picture
 - C** 250x220 mm
- Overall dimensions (without draft shield) WxDxH for models with weighing plate sizes
 - A** 220x333x93 mm
 - B** 220x333x93 mm
 - C** 260x333x110 mm
- Permissible ambient temperature 10 °C / 30 °C

Accessories

- **Protective working cover** standard, can be reordered (not for KERN PES 31000-1M), KERN PES-A04, **€ 25,-**
- **4** Only PES: **Rechargeable battery pack internal**, operating time up to 6 h, charging time approx. 15 h (internal charging with mains adapter), must be ordered at purchase, KERN PES-A01, **€ 560,-**
- **Relay output** with 5 outputs for weighing result in 3 tolerance ranges, must be ordered at purchase, KERN PES-A02, **€ 440,-**
- **Suitable printers** see page 130

STANDARD



OPTION

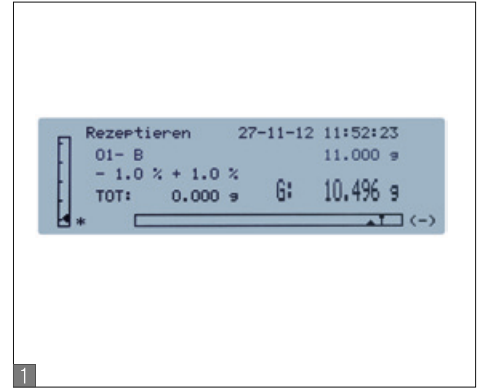


FACTORY



Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
									Verification		DKD Calibr. Certificate	
									M KERN	€	DKD KERN	€
PES 2200-2M	2200	0,01	0,1	0,01	± 0,02	4	B	920,-	-	-	963-127	65,-
PES 4200-2M	4200	0,01	0,1	0,01	± 0,02	4	B	1080,-	-	-	963-127	65,-
PES 6200-2M	6200	0,01	-	0,01	± 0,03	4	B	1290,-	-	-	963-128	80,-
PES 15000-1M	15000	0,1	1	0,1	± 0,2	4	B	1280,-	-	-	963-128	80,-
PES 31000-1M	31000	0,1	1	0,1	± 0,4	8,9	C	2020,-	-	-	963-128	80,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
PEJ 620-3M	620	0,001	0,01	0,001	± 0,003	6	A	1460,-	965-201 I	100,-	963-127	65,-
PEJ 2200-2M	2200	0,01	0,1	0,01	± 0,02	6	B	1130,-	965-216 II	60,-	963-127	65,-
PEJ 4200-2M	4200	0,01	0,1	0,01	± 0,02	6	B	1270,-	965-216 III	60,-	963-127	65,-

Precision balance KERN PLT



High-quality precision balance with convenient graphics display, now also with EC type approval [M]

Features

- **Convenient recipe-weighing:** with the recipe database, in which up to 99 recipes can be stored, each with up to 20 recipe ingredients with name and target value
- **Rapid and efficient operation** thanks to the graphics display
- **Simple plain text user guidance in the display** in the following languages: D, GB, F, I, E, PT
- **Automatic internal adjustment** in the case of a change in temperature > 1,5 °C or time-controlled every 20 minutes
- **Percentage determination:** makes it possible to store a given weight value (100%) and to determine deviations from this target value

- **Weighing with tolerance range,** ideal for portion division, dispensing, grading
- **GLP/ISO record keeping** of weight values with date, time and serial number
- **Glass draught guard,** standard for models with weighing plate sizes **A**. Removable metal cover with pipette opening. weighing space ØxH 150x60 mm

Technical data

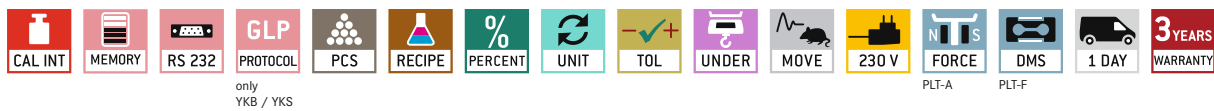
- Large backlit LCDdisplay, digit height 15 mm
- Dimensions of weighing plate
A Ø 110 mm
B Ø 160 mm
- Overall dimensions (incl. draft shield) WxDxH 210x340x160 mm
- Net weight approx. 4 kg

- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover,** KERN PLJ-A01, € 25,-
- **Set for density determination** of liquids and solids with density $\leq 1 \geq$
On all models with readout d = 0,001 g, KERN ALT-A02, € 690,-
On all models with readout d = 0,01 g, KERN PLT-A01, € 690,-
- **Suitable printers** see page 130

STANDARD



only YKB / YKS

OPTION



FACTORY



on request

Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Price excl. of VAT ex works €	Options			
									Verification		DKD Calibr. Certificate	
KERN								MII KERN	€	DKD KERN	€	
PLT 420-3F	420	0,001	-	0,001	± 0,004	0,005	A	850,-	-	-	963-127	65,-
PLT 1200-3A	1200	0,001	-	0,001	± 0,003	0,005	A	1230,-	-	-	963-127	65,-
PLT 4200-2F	4200	0,01	-	0,01	± 0,04	0,05	B	850,-	-	-	963-127	65,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
PLT 720-3A	720	0,001	0,01	0,001	± 0,002	0,005	A	1150,-	on request		963-127	65,-
PLT 6200-2A	6200	0,01	0,1	0,01	± 0,03	0,05	B	1150,-	on request		963-128	80,-

■ New model



Multifunctional laboratory balance with single-cell weighing system and EC type approval [M]



2 only PBS: **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price



Simple recipeweighing and documenting with a combined tare/print function. In addition, the mixing ingredients for the recipe are numbered automatically and printed out with their corresponding number and weight value



Percentage determination: makes it possible to store a given weight value (100%) and to determine deviations from this target value

Precision balance KERN PBS · PBJ



02

Features

- **1** only PBJ: **Automatic internal adjustment** in the case of a change in temperature or time-controlled at defined intervals
- **Metal housing:** robust and sturdy
- **Dosage aid:** High-stability mode and other filter settings can be selected
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual signal assists with portion division, dispensing or grading
- **Totalizing** of individual weighing results
- **Identification number:** 4 numeric positions, printed on calibration protocol
- **Automatic data output to the PC/printer** every time the balance is steady
- **3** **Draft shield** standard, on all models with readout d = 0,001 g, weighing space WxDxH 180x193x87 mm

Technical data

- Large backlit LCDdisplay, digit height 14 mm
- Dimensions of weighing plate (stainless steel)
 - A** 108x105 mm
 - B** 170x180 mm, see larger picture
- Overall dimensions (without draft shield) WxDxH 209x322x78 mm
- Net weight approx. 3 kg
- Permissible ambient temperature 10 °C / 30 °C

- **5** **Single-cell advanced technology:**
 - **Fully automatic manufactured weighing cell from one piece of material**
 - **Stable temperature behaviour**
 - **Short stabilisation time: 3 sec**
 - **Shock proof construction**
 - **High corner load performance**

Accessories

- **Protective working cover** over keyboard and housing, standard, can be reordered, **€ 20,-** for models with weighing plate sizes
 - A** KERN PBS-A01
 - B** KERN PBS-A02
- **4** **Set for density determination** for models with weighing plate sizes
 - A** KERN PBS-A04, **€ 1350,-**
 - B** KERN PBS-A03, **€ 1350,-**
- **Suitable printers** see page 130

STANDARD



OPTION



Model	Weighing range [Max] g	Readout [d] g	Verific. value [e] g	Mindest-last [Min] g	Repro-ducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Options			
									Verification		DKD Calibr. Certificate	
									M KERN	€	DKD KERN	€
PBS 420-3M *	420	0,001	0,01	0,02	0,001	± 0,002	A	790,-	-	-	963-127	65,-
PBS 620-3M	620	0,001	-	-	0,001	± 0,002	A	1240,-	-	-	963-127	65,-
PBS 4200-2M	4200	0,01	0,1	0,5	0,01	± 0,02	B	1040,-	-	-	963-127	65,-
PBS 6200-2M	6200	0,01	-	-	0,01	± 0,02	B	1290,-	-	-	963-128	80,-
PBS 8200-1M *	8200	0,1	1	5	0,1	± 0,2	B	790,-	-	-	963-128	80,-
PBJ 420-3M *	420	0,001	0,01	0,02	0,001	± 0,002	A	990,-	965-216	60,-	963-127	65,-
PBJ 620-3M	620	0,001	0,01	0,1	0,001	± 0,002	A	1420,-	965-201	100,-	963-127	65,-
PBJ 4200-2M	4200	0,01	0,1	0,5	0,01	± 0,02	B	1320,-	965-216	60,-	963-127	65,-
PBJ 6200-2M	6200	0,01	0,1	1	0,01	± 0,02	B	1530,-	965-202	100,-	963-128	80,-
PBJ 8200-1M	8200	0,1	1	5	0,1	± 0,2	B	1220,-	965-217	70,-	963-128	80,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

! * ONLY WHILE STOCKS LAST

■ Price reduction



High-precision balances for heavy loads

High-capacity precision balances can be used when the weighing ranges of classic laboratory balances are not sufficient or the items to be weighed are relatively bulky.

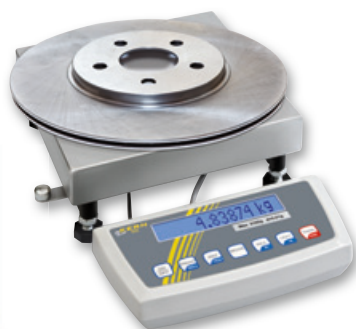


KERN DS 5K0.05S Affordable platform balance with laboratory accuracy

Best for bulky or heavy samples, thanks to the robust platform with stainless steel weighing plate and display device which can be positioned to suit you. Of course it has all the features related to laboratory work, which will make your processes more efficient and reliable.

Weighing range: 5 kg
Read-out: 0,05 g
Weighing plate: 228x228 mm

For additional information see page 98



KERN DS

KERN ILS 50K-4 High-resolution laboratory platform scale for the most precise results up to 50 kg

The high-quality finish, exceptional weighing data and extensive configuration package all go to make this range particularly suitable for demanding requirements.

Weighing range: 50 kg
Read-out: 0,1 g
Weighing plate: 365x258 mm

For additional information see page 99



KERN ILS/ILJ

KERN IKT 3K0.01S High-resolution platform scale with stainless steel weighing plate and separate touchscreen display device

Particularly practical when working with toxic, volatile or contaminated substances in glove bags or fume cupboards.

Weighing range: 3 kg
Read-out: 0,01 g
Weighing plate: 228x228 mm

For additional information see page 100/101



KERN IKT

KERN PES 31000-1M Robust laboratory and industrial precision balance

Ideally suited for compact, very dense samples, such as those which might be found in road building or the construction industry, for example.

Weighing range: 31 kg
Read-out: 0,1 g
Weighing plate: 250x220 mm

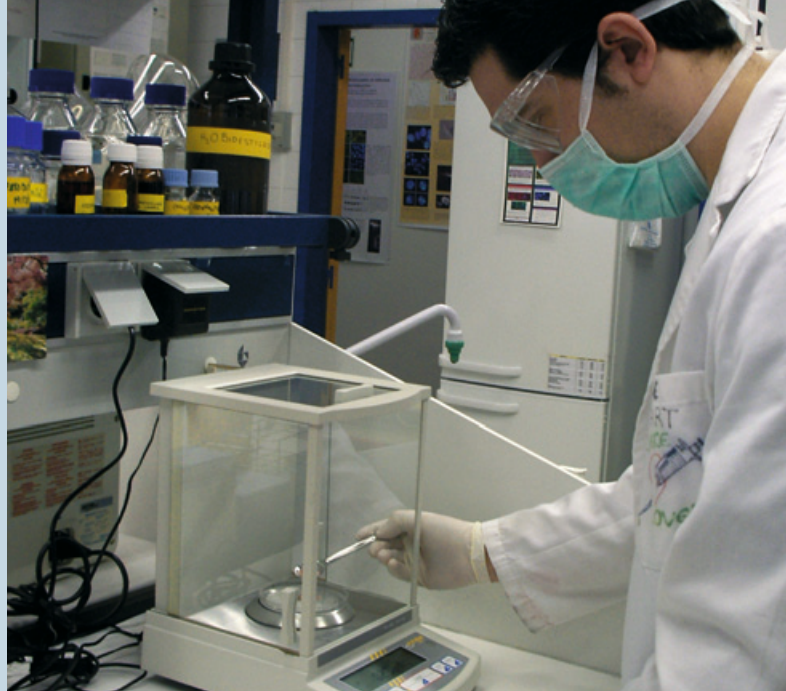
For additional information see page 36



KERN PES

3 Analytical balances

KERN Model		Page
ABS-N ABJ-NM	The bestseller in analytical balances, now also with high-quality single-cell weighing system and verification [M]	42
ALS-A ALJ-A	Precision and price down to a point – now also with internal adjustment	43
AES-N AEJ-NM	Compact high-end analytical balance with useful pipette calibration program	44
ALT-B	Analytical balance with extensive recipe database	45
ABT	The premium model with single-cell weighing system	46



KERN Analytical balances with Single-cell cutting edge technology



To satisfy stricter requirements for precision, speed, and → **reproducibility** of weight values, monolithic balance cells are increasingly the standard. These are measurement sensors for determination

of weight that are fabricated from an aluminium. These systems distinguish themselves from conventional balance cells in terms of both quality and performance:

- Higher measurement speed
- Stable temperature behaviour
- Higher corner load reliability
- Better measurement precision
- Improved mechanical sturdiness

KERN analytical balances on this measurement principle are designated as using „Single Cell Technology“ (→ **SC TECH**).

To avoid relevant result variations when weighing with high-precision analytical balances, we recommend noting a few basic things:

- Daily → **adjustment**, particularly if there are temperature variations, etc.
- Use of the internal automatic adjustment feature is strongly recommended
- Avoidance of air movement, e.g. open doors, windows, wind protection
- Use of a special weighing table, e.g. **KERN YPS-01**, p. 132
- Use of an ioniser to neutralise electrostatic charges on the items being weighed, e.g. **KERN YBI-01**, p. 132

→ See the glossary on page 158/159

Quick-Finder

o.r. = on request ■ = Standard □ = Option

Read-out	Weighing range	Model	Price € excl. VAT ex works	Page	DAYS ready for shipping						
d	Max	KERN				For an explanation of the symbols, see the flap of the envelope					
0,01 mg	101 g	ABT 100-5M	1830,-	46	1	■	■			□	■
0,01/0,1 mg	42/120 g	ABT 120-5DM	1990,-	46	1	■	■			□	■
0,01/0,1 mg	80/220 g	AEJ 200-5NM	1850,-	44	1	■	■			□	■
0,01/0,1 mg	82/220 g	ABT 220-5DM	2190,-	46	1	■	■			□	■
0,1 mg	80 g	ABS 80-4N	810,-	42	1			■		□	■
0,1 mg	80 g	ABJ 80-4NM	880,-	42	1	■	■			□	■
0,1 mg	120 g	ABS 120-4N	870,-	42	1			■		□	■
0,1 mg	120 g	ABJ 120-4NM	920,-	42	1	■	■			□	■
0,1 mg	120 g	ABT 120-4M	1380,-	46	1	■	■			□	■
0,1 mg	160 g	ALS 160-4A	1020,-	43	1			■		□	■
0,1 mg	160 g	ALJ 160-4A	1110,-	43	1	o.r.	■			□	■
0,1 mg	160 g	AES 100-4N	940,-	44	1			■		□	■
0,1 mg	160 g	AEJ 100-4NM	1010,-	44	1	■	■			□	■
0,1 mg	160 g	ALT 160-4B	1380,-	45	1	o.r.	■		■	□	■
0,1 mg	220 g	ABS 220-4N	940,-	42	1			■		□	■
0,1 mg	220 g	ABJ 220-4NM	1030,-	42	1	■	■			□	■
0,1 mg	220 g	AES 200-4N	970,-	44	1			■		□	■
0,1 mg	220 g	AEJ 200-4NM	1050,-	44	1	■	■			□	■
0,1 mg	220 g	ABT 220-4M	1590,-	46	1	■	■			□	■
0,1 mg	250 g	ALS 250-4A	1050,-	43	1			■		□	■
0,1 mg	250 g	ALJ 250-4A	1150,-	43	1	o.r.	■			□	■
0,1 mg	250 g	ALT 250-4B	1430,-	45	1	o.r.	■		■	□	■
0,1 mg	310 g	ALJ 310-4A	1350,-	43	1	o.r.	■			□	■
0,1 mg	320 g	ABS 320-4N	1080,-	42	1			■		□	■
0,1 mg	320 g	ABJ 320-4NM	1180,-	42	1	■	■			□	■
0,1 mg	320 g	ABT 320-4M	1780,-	46	1	■	■			□	■



- 5** 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 sec under laboratory conditions
 - **Shock proof construction**
 - **High corner load performance**

The bestseller in analytical balances, now with high-quality single-cell weighing system and EC type approval [M]

Features

- **1** Only ABJ-N: **Automatic internal adjustment** in the case of a change in temperature > 2 °C or time-controlled every 4 hours
- **2** Only ABS-N: **Adjusting program CAL**, external test weights at an additional price, see page 133 ff.
- **Dosage aid:** High-stability mode and other filter settings can be selected
- **Simple recipeweighing and documenting** with a combined tare/print function. In addition, the mixing ingredients for the recipe are numbered automatically and printed out with their corresponding number and weight value

- **Identification number:** 4 numeric positions, printed on calibration protocol
- **Automatic data output** to the PC/printer each time the balance reaches a steady state

Technical data

- Large LCD display, digit height 14 mm
- Dimensions of weighing plate Ø 91 mm
- Overall dimensions
WxDxH 210x340x325 mm
- weighing space WxDxH 174x162x227 mm
- Permissible ambient temperature
10 °C / 30 °C
- Net weight approx. 6 kg

Accessories

- **3** **Data interface RS-232** interface cable included, KERN ACS-A01, **€ 75,-**
- **Protective working cover** standard, can be reordered, KERN ACS-A02, **€ 25,-**
- **Set for density determination** of liquids and solids, KERN ACS-A03, **€ 820,-**
- **Ioniser** to neutralise electrostatic charge, see page 132, KERN YBI-01, **€ 1190,-**
- **4** **Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, see page 132, KERN YPS-01, **€ 850,-**
- **Suitable printers** see page 130

STANDARD

CAL INT CAL EXT GLP PROTOCOL PCS RECIPE PERCENT UNIT TOL SC TECH 1 DAY 3 YEARS WARRANTY

OPTION

DKD +3 DAYS

FACTORY

RS 232 +3 DAYS M

Model	Weighing range [Max] g	Read-out [d] g	Verific. value [e] g	Minimum load [Min] mg	Reproducibility g	Linearity mg	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
								MI KERN	€	DKD KERN	€
ABS 80-4N	80	0,1	-	-	0,2	± 0,3	810,-	-	-	963-101	125,-
ABS 120-4N	120	0,1	-	-	0,2	± 0,3	870,-	-	-	963-101	125,-
ABS 220-4N	220	0,1	-	-	0,2	± 0,3	940,-	-	-	963-101	125,-
ABS 320-4N	320	0,1	-	-	0,2	± 0,3	1080,-	-	-	963-101	125,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
ABJ 80-4NM	80	0,1	1	10	0,2	± 0,3	880,-	965-201	100,-	963-101	125,-
ABJ 120-4NM	120	0,1	1	10	0,2	± 0,3	920,-	965-201	100,-	963-101	125,-
ABJ 220-4NM	220	0,1	1	10	0,2	± 0,3	1030,-	965-201	100,-	963-101	125,-
ABJ 320-4NM	320	0,1	1	10	0,2	± 0,3	1180,-	965-201	100,-	963-101	125,-



03



Precision and price down to a point, with external and internal adjustment

Features

- 1 only ALJ-A: **Automatic internal adjustment** in the case of a change in temperature > 1,5 °C
- 2 only ALS-A: **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see page 133
- Ergonomically optimised keypad** for left and righthanded users
- Large glass draught shield** with 3 sliding doors for easy access to the items being weighed
- 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

- **Weighing with tolerance range**, ideal for portion division, dispensing, grading

Technical data

- Backlit LCDdisplay, digit height 17 mm
- Dimensions of weighing plate Ø 80 mm
- Overall dimensions (incl. draft shield): 210x340x330 mm
- Weighing space WxDxH 160x140x205 mm
- Net weight approx. 5,7 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover**, KERN ALJ-A01, € 25,-
- 3 **Ioniser** to neutralise electrostatic charge, see page 132, KERN YBI-01, € 1190,-
- 4 **Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, see page 132, KERN YPS-01, € 850,-
- **Set for density determination** of liquids and solids, KERN ALT-A02, € 690,-
- **Suitable printers** see page 130

STANDARD

CAL INT CAL EXT RS 232 GLP PCS PERCENT UNIT TOL MOVE 230 V FORCE 1 DAY 3 YEARS WARRANTY

1 only with printer

OPTION

DKD +3 DAYS

Model	Weighing range [Max] g	Read-out [d] g	Reproducibility g	Linearity mg	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
						DKD KERN	€
ALS 160-4A	160	0,1	0,1	± 0,3	1020,-	963-101	125,-
ALS 250-4A	250	0,1	0,1	± 0,3	1050,-	963-101	125,-
ALJ 160-4A	160	0,1	0,1	± 0,3	1110,-	963-101	125,-
ALJ 250-4A	250	0,1	0,1	± 0,3	1150,-	963-101	125,-
ALJ 310-4A	310	0,1	0,1	± 0,3	1350,-	963-101	125,-



03

Compact high-end analytical balance with useful pipette calibration program

Features

- 1 only AEJ-NM: **Automatic internal adjustment** in the case of a change in temperature > 0,8 °C or time-controlled every 3 hours
- Intuitive pipette calibration function** to ensure data integrity and to minimise the risks in the daily work with your pipettes
- 2 Vmin: 10% of the volume
Va: Arithmetic mean
Es: Systematic error
Vmax: 100 of the volume
Sr: Standard deviation
- GLP/ISO record keeping** of weight values with date, time and serial number
- Higher weighing speed by switching off the last digit

- **Totalizing** of weights (manual/automatic)
- **Modern all glass draft wind shield** for optimal visibility of the weighing object
- **Dispensing mode:** By pressing one key you can set all relevant parameters for this dispensing process

Technical data

- Large backlit LCDdisplay, digit height 17 mm
- Dimensions of weighing plate Ø 85 mm
- Overall dimensions WxDxH 206x335x335 mm
- Weighing space WxDxH 168x160x225 mm
- Net weight approx. 5,4 kg
- Permissible ambient temperature 18 °C / 30 °C

Accessories

- Protective working cover, standard, can be reordered, KERN ALS-A02, € 25,-
- 3 **Set for density determination** of liquids and solids. Step-by-step user guidance, as well as the calculated density shown immediately on the display, similar to illustration, KERN AES-A01N, € 580,-
- **Ioniser** to neutralise electrostatic charge, see page 132, KERN YBI-01, € 1190,-
- **Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, see page 132, KERN YPS-01, € 850,-
- **Suitable printers** see page 130

STANDARD



OPTION



FACTORY

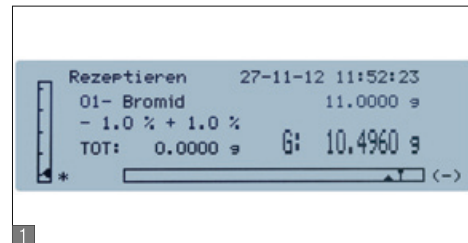


1 only with printer

only AEJ-NM

Model	Weighing range [Max] g	Read-out [d] g	Verific. value [e] g	Minimum load [Min] mg	Reproducibility g	Linearity mg	Price excl. of VAT ex works €	Options				
								Verification		DKD Calibr. Certificate		
								MT KERN	€	DKD KERN	€	
KERN												
AES 100-4N	160	0,1	-	-	0,2	± 0,2	940,-	-	-	963-101	125,-	
AES 200-4N	220	0,1	-	-	0,2	± 0,2	970,-	-	-	963-101	125,-	
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
AEJ 100-4NM	160	0,1	1	10	0,2	± 0,3	1010,-	965-201	100,-	963-101	125,-	
AEJ 200-4NM	220	0,1	1	10	0,2	± 0,3	1050,-	965-201	100,-	963-101	125,-	
AEJ 200-5NM	80 220	0,01 0,1	1	1	0,04 0,1	± 0,1 ± 0,2	1850,-	965-201	100,-	963-101	125,-	

Analytical balance KERN ALT-B



03

Analytical balance with extensive recipe database

Features

- **Convenient recipe-weighing:** with the recipe database, in which up to 99 recipes can be stored, each with up to 20 recipe ingredients with name and target value
- **Rapid and efficient operation** thanks to the graphics display
- **Simple plain text user guidance in the display** in the following languages: D, GB, F, I, E, PT
- **Automatic internal adjustment** in the case of a change in temperature > 1,5 °C or time-controlled every 20 minutes
- **Percentage determination:** makes it possible to store a given weight value (100%) and to determine deviations from this target value
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual signal assists with portion division, dispensing or grading

- **Vibration-free weighing:** at the push of a button, a stable average weight is given when the environmental conditions are unstable
- **GLP/ISO record keeping** of weight values with date, time and serial number
- **Modern all glass draft wind shield** for optimal visibility of the weighing object

Technical data

- Large backlit LCDdisplay, digit height 15 mm
- Dimensions weighing surface Ø 80 mm
- Dimensions housing WxDxH 210x340x330 mm
- Weighing space WxDxH 160x140x205 mm
- Net weight approx. 5,7 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover,** KERN ALJ-A01, € 25,-
- **Ioniser** to neutralise electrostatic charge, see page 132, KERN YBI-01, € 1190,-
- **Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, see page 132, KERN YPS-01, € 850,-
- **Set for density determination** of liquids and solids. Step-by-step user guidance, as well as the calculated density shown immediately on the display, KERN ALT-A02, € 690,-
- **Suitable printers,** see page 130

STANDARD



OPTION



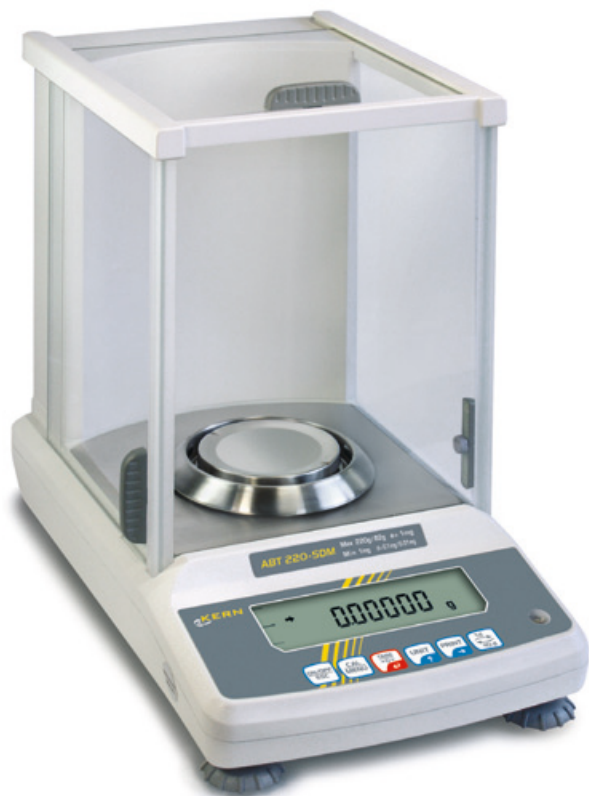
FACTORY



Model	Weighing range [Max] g	Read-out [d] g	Verific. value [e] g	Minimum load [Min] mg	Reproducibility g	Linearity mg	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
								MI KERN	€	DKD KERN	€
ALT 160-4B	160	0,1	-	-	0,1	± 0,3	1380,-	on request	€	963-101	125,-
ALT 250-4B	250	0,1	-	-	0,1	± 0,3	1430,-	on request	€	963-101	125,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

03



The premium model with single-cell weighing system

Features

- **Automatic internal adjustment** in the case of a change in temperature > 0,5 °C or time-controlled every 4 hours
- **Dosage aid:** High-stability mode and other filter settings can be selected
- **Simple recipeweighing and documenting** with a combined tare/print function. In addition, the mixing ingredients for the recipe are numbered automatically and printed out with their corresponding number and weight value
- **Identification number:** 4 numeric positions, printed on calibration protocol
- **Automatic data output to the PC/printer** every time the balance is steady

Technical data

- Large LCD display, digit height 14 mm
- Dimensions of weighing plate Ø 80 mm
- Overall dimensions WxDxH 217x356x338 mm
- weighing space WxDxH 168x172x223 mm
- Net weight approx. 7 kg
- Permissible ambient temperature 10 °C / 30 °C

Accessories

- **Protective working cover**, standard, can be reordered, KERN ABT-A02, € 26,-
- **Set for density determination** of liquids and solids. The density is indicated directly

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. 5 sec under laboratory conditions
- **Shock proof construction**
- **High corner load performance**

on the display, KERN ABT-A01, € 810,-

- **Ioniser** to neutralise electrostatic charge, KERN YBI-01, € 1190,-
- **Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-01, € 850,-
- **Suitable printers** see page 130

STANDARD



only with printer

OPTION



FACTORY

Model	Weighing range [Max] g	Read-out [d] g	Verific. value [e] g	Minimum load [Min] mg	Reproducibility g	Linearity mg	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
								MI KERN	€	DKD KERN	€
ABT 120-4M	120	0,1	1	10	0,1	± 0,2	1380,-	965-201	100,-	963-101	125,-
ABT 220-4M	220	0,1	1	10	0,1	± 0,2	1590,-	965-201	100,-	963-101	125,-
ABT 320-4M	320	0,1	1	10	0,1	± 0,3	1780,-	965-201	100,-	963-101	125,-
ABT 100-5M	101	0,01	1	1	0,05	± 0,15	1830,-	965-201	100,-	963-101	125,-
Dual-range balance (D = Dual): switches automatically to the next largest weighing range [Max.] and readout [d].											
ABT 120-5DM	42 120	0,01 0,1	1 1	1	0,02 0,1	± 0,05 ± 0,2	1990,-	965-201	100,-	963-101	125,-
ABT 220-5DM	82 220	0,01 0,1	1 1	1	0,05 0,1	± 0,1 ± 0,2	2190,-	965-201	100,-	963-101	125,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

4 Moisture analysers

KERN Model		Page
DBS	Modern moisture analyser with 10 memories and graphic display	48
DLB	Robust moisture analyser for samples up to 160 g	49
MLB-N	High standard in moisture analysis with graphic-assisted display	50
MLS-N	Moisture analyser with 99 memory possibilities and graphic display	51
DLT	High-end moisture analyser with innovative Windows CE touch® operating system	52/53



Moisture analysing is an integral part of many raw and finished products and has a crucial influence on the quality of the product.

Moisture analysers are used particularly in the food industry, water resource management (sewage plants, etc.), plastics industry, agriculture and the energy industry (bio-energy plants, etc.).

Determining moisture requires a great deal of experience. Depending on the type of sample and the task involved, various drying processes are used.

KERN has concentrated on the most widely-used drying method: halogen drying, which brings many advantages:

- Even warming of the sample from above, without any risk of burning the surface of the sample
- Affordable purchase costs ensure rapid amortisation of the device
- Established temperature ranges from 35 - 200°C

- High measuring precision, up to 0.01 %
- Sufficient spare capacity, weighing range up to 160 g
- Various drying programs (gradual drying, standard drying, stage drying, preheating stage (Boost))

The numerous memories of the KERN moisture analyser are particularly useful, as they hold information on the complete drying processes with drying parameters such as, for example, drying period, drying temperature, display settings, switch off criteria, etc... This saves an enormous amount of time and helps to achieve repeatable results.

On the internet, you will find a practical application handbook containing many examples, field reports, adjustments and tips for each KERN moisture analyser.



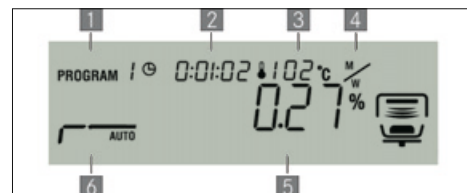
Your KERN product specialist will be happy to help:

Ulrich Ulmer
Product specialist Moisture analysers
 Tel. +49-(0) 74 33-99 33-160
 Fax +49-(0) 74 33-99 33-29 160
 ulmer@kern-sohn.com

Quick-Finder

■ = Standard □ = Option

Read-out	Weighing range	Model	Price €	Page	DAYS	M	CAL EXT	MEMORY	RS 232
d	Max	KERN	excl. VAT ex works		ready for shipping	For an explanation of the symbols, see the flap of the envelope			
0,001 g	60 g	DBS 60-3	1060,-	48	1		■	■	■
0,001 g	160 g	DLB 160-3A	1150,-	49	1		■	■	■
0,001 g	50 g	MLB 50-3N	1220,-	50	1		■	■	■
0,001 g	50 g	MLS 50-3HA160N	1490,-	51	1		■	■	■
0,001 g	100 g	DLT 100-3	2600,-	52	1		■	■	■



Modern moisture analyser with 10 memories and graphic display

STANDARD

- CAL EXT
- MEMORY
- RS 232
- USB
- GLP PROTOCOL
- UNIT
- 230 V
- NITS
- FORCE
- 1 DAY
- 3 YEARS WARRANTY

OPTION

- DKD +3 DAYS

only with printer

KERN	DBS 60-3
Readout [d]	0,001 g / 0,01 %
Weighing range [Max]	60 g
Reproducibility, weight of sample 2 g	0,15 %
Reproducibility, weight of sample 10 g	0,02 %
Display after drying (Display can be switched over at any time)	
Moisture [%] = Weight loss (WL) from SW (startweight)	0 - 100 %
Dry mass [%] = Residual weight (RW) from SW	100 - 0 %
ATRO [%] [(SG-RG) : RG] · 100%	100 - 999 %
ATRO [%] (SG : RG) · 100%	0 - 999 %
Weight loss [g] (WL)	Absolute value in [g]
Temperature range	50 - 200 °C in steps up to 1 °C
Drying modes	<ul style="list-style-type: none"> • Standard drying • Drying in levels • Gentle drying • Pre-heat level, can be switched on
Switch off criteria	<ul style="list-style-type: none"> • When the set time has expired (1 min - 4 h) • When the weight loss per unit of time falls below the target value (30 sec)
Recall of measurement	Interval adjustable from 1 sec - 10 min (only in connection with KERN YKB-01N printer or PC)
Overall dimensions WxDxH	202x336x157 mm
Net weight	approx. 4,2 kg
Price €, excl. of VAT, ex works	1060,-
Option DKD Calibr. Certificate	963-127, € 65,-

Features

- 1 Drying program
 - 2 Previous drying time
 - 3 Current temperature
 - 4 Unit for displaying the results
 - 5 Current moisture content in %
 - 6 Drying mode/Status display drying
- **Halogen quartz glass heater** 400 W
 - **Observation window over the sample**, useful during initial adjustment
 - **Internal memory** for automatic sequence of 10 drying programs and 100 drying processes carried out
 - The last value measured remains on the display until it is replaced by a new measurement
 - **Sample description** for up to 99 samples, 2 digits, freely programmable, and is printed in the measuring protocol
 - **Date and time display** as standard
 - **10 sample plates included**
 - **Application handbook:** On the internet, you will find a practical application handbook containing many examples, field reports, adjustments and tips for each KERN moisture analyser

Accessories

- **Sample plates aluminium**, Ø 92 mm. Unit of 80 pieces, KERN MLB-A01, € 60,-
- **Round fiberglass filter** e.g. for samples that splash or become encrusted. Unit of 80 pieces, KERN RH-A02, € 70,-
- **Temperature calibration set** consists of measuring sensor and display device, KERN DBS-A01, € 370,-
- **USB interface kit** for bi-directional data exchange between moisture analyser and computer. Scope of supply: USB cable, driver, Software Balance Connection, KERN DBS-A02, € 290,-
- **Suitable printers** see page 130

Moisture analyser KERN DLB



04

Robust moisture analyser for samples up to 160 g

STANDARD

CAL EXT MEMORY RS 232 GLP PROTOCOL UNIT 230 V DMS 1 DAY 3 YEARS WARRANTY DKD +3 DAYS

OPTION

only with printer

KERN	DLB 160-3A
Readout [d]	0,001 g / 0,01 %
Weighing range [Max]	160 g
Reproducibility, weight of sample 10 g	0,05 %
Display after drying (Display can be switched over at any time)	
Moisture [%] = Weight loss (WL) from SW (startweight)	0 - 100 %
Dry mass [%] = Residual weight (RW) from SW	100 - 0 %
ATRO [%] (SG : RG) · 100%	100 - 999 %
Weight loss [g] (WL)	Absolute value in [g]
Temperature range	35 °C - 160 °C in steps up to 1 °C
Drying modes	<ul style="list-style-type: none"> Standard drying Pre-heat level, can be switched on
Switch off criteria	<ul style="list-style-type: none"> When the set time has expired (1 - 99 min) When the weight loss per unit of time falls below the target value (60 sec)
Recall of measurement	<ul style="list-style-type: none"> Continuous output (residual weight) At the end of the drying process, manual or automatic (only in connection with KERN YKB-01N printer or PC)
Overall dimensions WxDxH	210x340x225 mm
Net weight	approx. 4,2 kg
Price €, excl. of VAT, ex works	1 150,-
Option DKD Calibr. Certificate	963-127, € 65,-

Features

- Backlit LCDdisplay, digit height 17 mm
- 1 Current moisture content in %
- 2 Unit for displaying the results, e.g. % moisture
- 3 Drying process active
- Halogen quartz glass heater** 400 W
- Internal memory** for automatic sequence of 5 complete drying processes
- The last value measured remains on the display until it is replaced by a new measurement
- 10 sample plates included**
- Application handbook:** On the internet, you will find a practical application handbook containing many examples, field reports, adjustments and tips for each KERN moisture analyser

Accessories

- Sample plates aluminium**, Ø 92 mm. Unit of 80 pieces, KERN MLB-A01, € 60,-
- Round fiberglass filter** e.g. for samples that splash or become encrusted. Unit of 80 pieces, KERN RH-A02, € 70,-
- 5 Temperature calibration set** consists of measuring sensor and display device, KERN DLB-A01, € 310,-
- Protective working cover** standard, can be reordered, KERN PLJ-A01, € 25,-
- Suitable printers** see page 130



04

High standard in moisture analysis with graphics display

STANDARD

- CAL EXT
- MEMORY
- RS 232
- 230 V
- FORCE
- 1 DAY
- 3 YEARS WARRANTY

OPTION

- DKD +3 DAYS

KERN	MLB 50-3N
Readout [d]	0,001 g / 0,01 %
Weighing range [Max]	50 g
Reproducibility, weight of sample 2 g	0,5 %
Reproducibility, weight of sample 10 g	0,02 %
Display after drying (Display can be switched over at any time)	
Moisture [%] = Weight loss (WL) from SW (startweight)	0 - 100 %
Dry mass [%] = Residual weight (RW) from SW	100 - 0 %
ATRO [%] $[(SG-RG) : RG] \cdot 100\%$	0 - 999 %
Temperature range	50° - 160°C in steps up to 1°C
Drying modes	<ul style="list-style-type: none"> Standard drying Gentle drying Pre-heat level, can be switched on
Switch off criteria	<ul style="list-style-type: none"> • When the set time has expired (1 - 9 h 59 min) • When a constant weight per adjustable time unit has been reached (1 - 59 sec)
Recall of measurement	Interval adjustable from 1 - 180 sec (only in connection with KERN YKB-01N printer or PC)
Overall dimensions WxDxH	210x335x156 mm
Net weight	approx. 6 kg
Price €, excl. of VAT, ex works	1220,-
Option DKD Calibr. Certificate	963-127, € 65,-

Features

- Backlit LCD display, digit height 14 mm
- 1 Moisture display in %
- 2 Current moisture content in %
- 3 Printout in moisture %
- 4 Type of drying *Standard*
- 5 Switch off mode
- 6 Previous drying time
- 7 Current temperature
- 8 Drying process active
- **Halogen quartz glass heater** 400 W
- The last value measured remains on the display until it is replaced by a new measurement
- **10 sample plates included**
- **Application handbook:** On the internet, you will find a practical application handbook containing many examples, field reports, adjustments and tips for each KERN moisture analyser

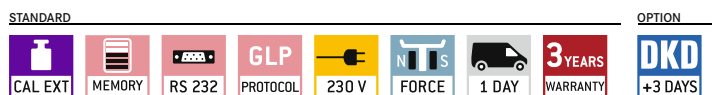
Accessories

- 9 **Sample plates aluminium**, Ø 92 mm. Unit of 80 pieces, KERN MLB-A01, € 60,-
- **Round fiberglass filter** e.g. for samples that splash or become encrusted. Unit of 80 pieces, KERN RH-A02, € 70,-
- **Temperature calibration set** consists of measuring sensor and display device, KERN MLB-A11, € 340,-
- **Protective working cover** standard, can be reordered, KERN ALS-A02, € 25,-
- **Suitable printers** see page 130

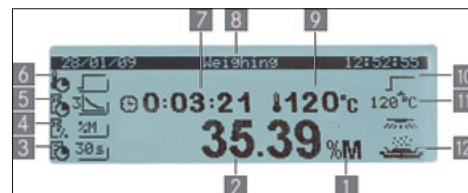
Moisture analyser KERN MLS-N



Moisture analyser with 10 memory possibilities and graphic display



KERN	MLS 50-3HA 160N
Readout [d]	0,001 g / 0,01 %
Weighing range [Max]	50 g
Reproducibility, weight of sample 2 g	0,5 %
Reproducibility, weight of sample 10 g	0,02 %
Display after drying (Display can be switched over at any time)	
Moisture [%] = Weight loss (WL) from SW (startweight)	0 - 100 %
Dry mass [%] = Residual weight (RW) from SW	100 - 0 %
ATRO [%] [(SG-RG) : RG] · 100%	0 - 999 %
Restgewicht [g]	Absolute value in [g]
Temperature range	50° - 160°C in steps up to 1°C
Drying modes	<ul style="list-style-type: none"> Standard drying Drying in levels Gentle drying Pre-heat level, can be switched on
Switch off criteria	<ul style="list-style-type: none"> When the set time has expired (1 - 9 h 59 min) When the weight loss per unit of time falls below the target value (both values freely adjustable mg/sec)
Recall of measurement	Interval adjustable from 1 sec - 5 min (only in connection with KERN YKB-01N printer or PC)
Overall dimensions WxDxH	210x335x156 mm
Net weight	approx. 6,3 kg
Price €, excl. of VAT, ex works	1490,-
Option DKD Calibr. Certificate	963-127, € 65,-



Features

- Backlit Grafik display, digit height 14 mm
 - 1 Moisture display in %
 - 2 Current moisture content in %
 - 3 Printer interval 30 sec
 - 4 Printout in moisture %
 - 5 Switch off mode
 - 6 Type of drying *Standard*
 - 7 Previous drying time
 - 8 Status bar
 - 9 Current temperature
 - 10 Type of drying *Standard*
 - 11 Target temperature
 - 12 Drying process active
- 13 Halogen quartz glass heater 400 W
- Internal memory for automatic sequence of 10 drying programs (12 free digits for each memory) and 100 drying processes carried out, which can be recalled individually
- Practical net weighing assistance to a defined target value [g] with adjustable tolerance range 1 - 25 % of the target value
- The last value measured remains on the display until it is replaced by a new measurement
- Simple „step-by-step“ user guidance in the display in the following languages D, GB, F, I, E, PL
- 14 10 sample plates included
- Can be connected to PC keyboard
- Application handbook: On the internet, you will find a practical application handbook containing many examples, field reports, adjustments and tips for each KERN moisture analyser

Accessories

- 14 Sample plates aluminium, Ø 92 mm. Unit of 80 pieces, KERN MLB-A01, € 60,-
- Round fiberglass filter e.g. for samples that splash or become encrusted. Unit of 80 pieces, KERN RH-A02, € 70,-
- Temperature calibration set consists of measuring sensor and display device, KERN MLB-A11, € 340,-
- Protective working cover standard, can be reordered, KERN ALS-A02, € 25,-
- Suitable printers see page 130



High-end moisture analyser with innovative Windows CE touch® operating system



Particularly in the pharmaceutical, food, chemical and construction industries, being able to analyse the moisture content of materials at Goods Inwards and production is an important tool to ensure product quality and robust production processes.

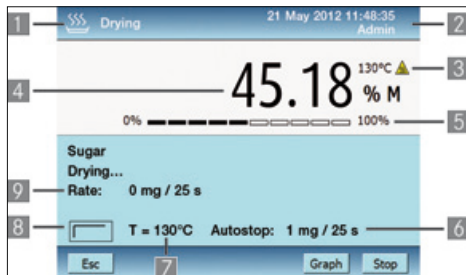


In biogas plants, sewage treatment plants or landfill sites, the drying of biomass has always been extremely important. Controlling the moisture content precisely helps, for example, to reduce transport weights or increase heating values



In the timber industry, statements which can be validated relating to the moisture content and the resulting mechanical and technological characteristics of the wood or the fuel and heating values of wood chips, pellets, etc. are of economic importance

Moisture analyser KERN DLT

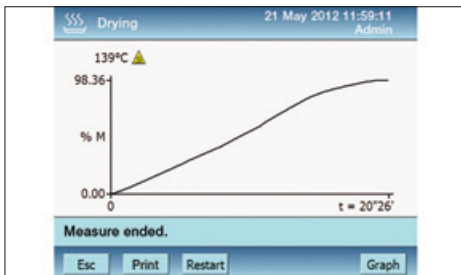


Innovative touchscreen: Large touch-sensitive, backlit screen with very good contrast for easy operation and convenient reading

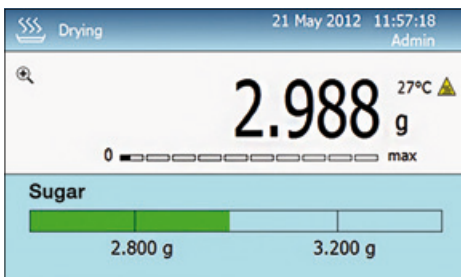
Clear menu structure with plain text labels on the display. The menu and processes are self-explanatory. This reduces the training times, avoids operating errors and in this way, ensures more efficient, rapid operation.

Colour LCD Display with digit height 18 mm, screen diagonal 5.8" (approx. 147 mm), WxH 11,8x8.8 mm

- 1 Drying process active
- 2 Status bar
- 3 Current temperature
- 4 Current moisture content in % / Display and print-out of moisture-%
- 5 Residual weight in % (progress bar)
- 6 Switch off mode
- 7 Target temperature
- 8 Type of drying Standard
- 9 Drying rate
- 10 Drying process active

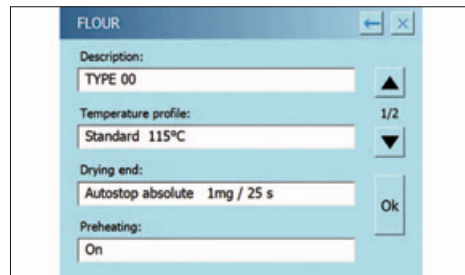


Grafic display of the drying curve shows the progress of the drying process in real time and can be used by the operator to check and evaluate the result



Net weighing assistance to a defined target value [g] with adjustable tolerance range 1% - 25% of the target value

- Halogen quartz glass heater 400 W
- Simple „step-by-step“ user guidance in the display in the following languages D, GB, F, I, E, PT



Balance contains memories for automatic sequence of 300 drying programs (12 free characters for each memory) as well as a further 100 memories for drying processes which have been carried out, which can be recalled individually



Touchless tare function: just give it a wave. 2 freely-assignable movement sensors for TARE/Print/OFF

- The last value measured remains on the display until it is replaced by a new measurement
- 10 sample plates included
- Application manual: On the website there is a practical application handbook for each KERN moisture analyser, which contains many examples, field reports, settings and tips

STANDARD



OPTION



KERN	DLT 100-3
Readout [d]	0,001 g 0,01 %
Weighing range [Max]	160 g
Reproducibility, weight of sample 10 g	0,001 g
Display after drying (Display can be switched over at any time)	
Moisture [%] = Weight loss (WL) from SW (startweight)	0 - 100 %
Dry mass [%] = Residual weight (RW) from SW	100 - 0 %
ATRO [%] (SG : RG) · 100%	100 - 999 %
Weight loss [g] (WL)	Absolute value in [g]
Temperature range	35 °C - 160 °C in steps up to 1 °C
Drying modes	<ul style="list-style-type: none"> • Standard drying • Drying in levels • Gentle drying • Pre-heat level, can be switched on
Switch off criteria	<ul style="list-style-type: none"> • When the set time has expired (1 - 99 min) • When the weight loss per unit of time falls below the target value (60 sec)
Recall of measurement	<ul style="list-style-type: none"> • Continuous output (residual weight) • At the end of the drying process, manual or automatic (only in connection with KERN YKB-01N printer or PC)
Overall dimensions WxDxH	210x340x225 mm
Dimensions of display device WxDxH	200x150x63 mm
Net weight	5,5 kg
Price €, excl. of VAT, ex works	2600,-
Option DKD Calibr. Certificate	963-127, € 65,-

Accessories

- **Sample plates aluminium**, Ø 92 mm. Unit of 80 pieces, KERN MLB-A01, € 60,-
- **Temperature calibration set** consists of measuring sensor and display device, KERN MLB-A11, KERN RH-A02, € 65,-
- **Round fibre glass filter** e. g. for samples that splash or become encrusted. Unit of 80 pieces, KERN RH-A02, € 300,-
- **Protective working cover** standard, can be reordered, KERN PLJ-A01, € 25,-
- **Suitable printers** see page 130



"Whether it's in the office or on the production line, the practical and uncomplicated bench scales from KERN increase efficiency and thereby also protect your wallet – how clever is that!"



5 Bench scales

KERN Model		Page
ECE ECB	Easy, mobile and economical	57
FCE	Affordable bench scale – mobile, practical, lightweight	58
GAB-N	Price-performance-winner with EC type approval [M]	59
FCB	Bench scale with second display on the back of the scale	60
FKB-A	Bench scale up to 65 kg with large weighing plate	61
FCB-B	Bench scale with laboratory accuracy	62
FKB FKB-M	Large, high resolution bench scale – also with EC type approval [M]	63
FKT	The future begins here – touchscreen industrial scale with enormous range of functions, also with EC type approval [M]	64/65



Compact industrial weighing technology

Thanks to its compact dimensions, low weight, robust internal mechanism and the fact that it 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 - 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, manual tare - subtraction of a known container weight, or → **interfaces** to PC and printer, all these support the user in their daily work.

→ **Dual range** and triple range scales have a particularly wide range of applications. With these scales, the total weighing range is subdivided into 2 or 3 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. In this way, the high level of accuracy is guaranteed at all times, even during harsh everyday use. Find the right test weights for you, from page 133.

Touchscreen balances

The newest development for an even greater level of ease of use is intuitive touchscreen operation, which is being integrated into new KERN models, see page 30, 52, 64, 100.

→ see the glossary on page 158/159



Your KERN product specialist will be happy to help:

Stephan Ade
Product specialist bench scales
 Tel. +49-(0) 74 33-99 33-121
 Fax +49-(0) 74 33-99 33-29121
 ade@kern-sohn.com

Quick-Finder

■ = Standard □ = Option

Read-out d	Weighing range Max	Model KERN	Price € excl. VAT ex works	Page	DAYS	M	CAL EXT	MEMORY	RS 232	PCS	TOL	MOVE	ACCU	BATT
					ready for shipping	For an explanation of the symbols, see the flap of the envelope								
0,02 g	6 kg	FCB 6K0.02B	390,-	61	1								□	
0,02 g	6 kg	FKB 6K0.02	450,-	63	1								□	□
0,02 g	6 kg	FKT 6K0.02	950,-	64	1						■		□	
0,02 g	6 kg	FKT 6K0.02L	990,-	64	1						■		□	□
0,05 g	6 kg	GAB 6K0.05N	270,-	59	1								□	
0,05 g	6 kg	FKT 6K0.05	890,-	64	1						■		□	
0,05 g	8 kg	FKB 8K0.05	420,-	63	1								□	□
0,05 g	12 kg	FCB 12K0.05B	370,-	61	1								□	
0,05 g	12 kg	FKT 12K0.05	950,-	64	1						■		□	
0,05 g	16 kg	FKB 16K0.05	450,-	63	1								□	□
0,05 g	16 kg	FKT 16K0.05L	990,-	64	1						■		□	□
0,1 g	3 kg	FCB 3K0.1	210,-	60	1								□	□
0,1 g	6 kg	FKT 6K0.1	850,-	64	1						■		□	
0,1 g	8 kg	FCB 8K0.1	220,-	60	1								□	□
0,1 g	8 kg	FKB 8K0.1A	290,-	62	1								□	□
0,1 g	8 kg	FKB 8K0.1M	490,-	63	1	■								□
0,1 g	12 kg	GAB 12K0.1N	270,-	59	1						■		□	
0,1 g	12 kg	FCB 12K0.1B	350,-	61	1								□	
0,1 g	12 kg	FKT 12K0.1	890,-	64	1						■		□	
0,1 g	16 kg	FKB 16K0.1	420,-	63	1								□	□
0,1 g	16 kg	FKT 16K0.1L	920,-	64	1						■		□	□
0,1 g	24 kg	FCB 24K0.1B	370,-	61	1								□	
0,1 g	24 kg	FKT 24K0.1	950,-	64	1						■		□	
0,1 g	36 kg	FKB 36K0.1	460,-	63	1								□	□
0,1 g	36 kg	FKT 36K0.1L	990,-	64	1						■		□	□
0,2 g	12 kg	FKT 12K0.2	850,-	64	1						■		□	
0,2 g	24 kg	FCB 24K0.2B	350,-	61	1								□	
0,2 g	24 kg	FKT 24K0.2	890,-	64	1						■		□	
0,2 g	30 kg	GAB 30K0.2N	270,-	59	1								□	
0,2 g	36 kg	FKB 36K0.2	440,-	63	1								□	□
0,2 g	36 kg	FKT 36K0.2L	920,-	64	1						■		□	□
0,2 g	65 kg	FKB 65K0.2	460,-	63	1								□	□
0,2 g	65 kg	FKT 65K0.2L	990,-	64	1						■		□	□
0,5 g	6 kg	FCB 6K0.5	185,-	60	1								□	□
0,5 g	15 kg	FKB 15K0.5A	280,-	62	1								□	□
0,5 g	30 kg	FKT 30K0.5L	850,-	64	1						■		□	■
0,5 g	65 kg	FKB 65K0.5	440,-	63	1								□	□
0,5 g	65 kg	FKT 65K0.5L	920,-	64	1						■		□	□
1 g	3 kg	FCE 3K1	99,-	58	1								□	□
1 g	6 kg	FKT 6K1LM	990,-	64	1	■					■		□	
1 g	12 kg	FCB 12K1	170,-	60	1								□	□
1 g	15 kg	FKB 15K1A	250,-	62	1								□	□
1 g	30 kg	FCB 30K1	210,-	60	1								□	□
1 g	30 kg	FKB 30K1A	280,-	62	1								□	□
1 g	60 kg	FKB 65K1A	290,-	62	1								□	□
1 g	60 kg	FKT 60K1L	850,-	64	1						■		□	□
1 g	65 kg	FKB 65K1M	510,-	63	1	■								□
1/2 g	3/6 kg	GAB 6K1DNM	210,-	59	1	■					■		□	
2 g	6 kg	FCE 6K2	99,-	58	1								□	□
2 g	12 kg	FKT 12K2LM	990,-	64	1	■					■		□	
2 g	24 kg	FCB 24K2	170,-	60	1								□	□
2/5 g	6/15 kg	GAB 15K2DNM	210,-	59	1	■					■		□	
5 g	10 kg	ECE 10K5	97,-	57	1								□	■
5 g	10 kg	ECB 10K5	115,-	57	1								□	■
5 g	15 kg	FCE 15K5	99,-	58	1								□	□
5 g	30 kg	FKT 30K5LM	990,-	64	1	■					■		□	
5 g	60 kg	FKB 60K5A	99,-	62	1								□	□
5/10 g	15/30 kg	GAB 30K5DNM	210,-	59	1	■					■		□	
5/10 g	15/30 kg	FKB 30K5DA	99,-	62	1								□	□
10 g	20 kg	ECE 20K10	97,-	57	1								□	■
10 g	20 kg	ECB 20K10	115,-	57	1								□	■
10 g	24 kg	FCB 24K10	69,-	60	1								□	□
10 g	30 kg	FCE 30K10	99,-	58	1								□	□
10 g	30 kg	FCE 30K10L	99,-	58	1								□	□
10 g	60 kg	FKT 60K10LM	990,-	64	1	■					■		□	
10/20 g	30/60 kg	FKB 60K10DA	99,-	62	1								□	□
20 g	50 kg	ECE 50K20	97,-	57	1								□	■
20 g	50 kg	ECB 50K20	115,-	57	1								□	■
20 g	60 kg	FCE 60K20	99,-	58	1								□	□



Easy, mobile and economical

Features

- **High mobility:** Battery operation, compact, flat construction and low weight make this balance ideal for use in several locations
- **Particularly large weighing plate**
- **Very fast display:** steady weight values within 2 sec
- **Simple and convenient 2-key operation**
- **Adjusting program CAL,** external test weights at an additional price, see page 133 ff.

Technical data

- Overall dimensions WxDxH 320x300x60 mm
- Optional battery operation, 6 x 1.5 V AA not included, operating time approx. 100 h. AUTO-OFF function to preserve the batteries
- Permissible ambient temperature 5 °C / 35 °C

ECB:

- Backlit LCDdisplay, digit height 14 mm
- Dimensions of weighing plate (stainless steel) WxD 320x260 mm
- Net weight approx. 1,7 kg

ECE:

- Large backlit LCDdisplay, digit height 14 mm

- Dimensions of weighing plate (plastic) WxD 320x260 mm
- Net weight approx. 1,5 kg

Accessories

- **Rechargeable battery pack internal,** operating time approx. 30 h, charging time approx. 10 h. AUTO-OFF function to preserve the battery, can be reordered, KERN PCB-A01, € 55,-
- **Rechargeable battery pack external,** operating time up to 270 h, charging time approx. 10 h, can be reordered, KERN KS-A01, € 180,-
- **Tare pan made from stainless steel,** details see page 132, KERN RFS-A02, € 45,-

STANDARD



OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
						DKD KERN	€
ECE 10K5	10	5	5	± 20	97,-	963-128	80,-
ECE 20K10	20	10	10	± 40	97,-	963-128	80,-
ECE 50K20	50	20	20	± 80	97,-	963-128	80,-
ECB 10K5	10	5	5	± 20	115,-	963-128	80,-
ECB 20K10	20	10	10	± 40	115,-	963-128	80,-
ECB 50K20	50	20	20	± 60	115,-	963-128	80,-

Bench scale KERN FCE



05

Affordable bench scale - mobile, practical, lightweight

Features

- **Simple and convenient 2-key operation**
- **Very fast display:** steady weight values within 2 sec
- **1** Ideal as a compact letter and parcel scale, especially where space is at a premium
- **2** Ideal as a grading or commissioning balance or simple checkweigher in production or dispatch

Technical data

- Large LCD display, digit height 25 mm
- Dimensions of weighing plate (plastic)
 - A** 252x228 mm, see larger picture
 - B** 340x240 mm
- Overall dimensions WxDxH for models with weighing plate sizes
 - A** 270x345x106 mm
 - B** 350x390x120 mm
- Optional battery operation, 9 V Block not included, operating time approx. 12 h. AUTO-OFF function to preserve the battery.
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover** over keyboard and housing, standard, can be reordered, **€ 25,-** for weighing plate size
 - A** KERN FCB-A02
 - B** KERN FKB-A02
- **Stainless steel-weighing plate**, only for models with weighing plate sizes **A**, KERN FCE-A01, **€ 26,-**
- **Rechargeable battery pack internal, AUTO-OFF function** to preserve the battery, can be switched off, for models with weighing plate sizes
 - A** operating time approx. 20 h, charging time approx. 10 h, KERN FCB-A01, **€ 45,-**
 - B** operating time approx. 8 h, charging time approx. 10 h, KERN PCB-A01, **€ 55,-**

STANDARD



OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
								DKD KERN	€
FCE 3K1	3	1	1	± 2	2,5	A	99,-	963-127	65,-
FCE 6K2	6	2	2	± 4	2,5	A	99,-	963-128	80,-
FCE 15K5	15	5	5	± 10	2,5	A	99,-	963-128	80,-
FCE 30K10	30	10	10	± 20	2,5	A	99,-	963-128	80,-
FCE 30K10L *	30	10	20	± 20	5,5	B	99,-	963-128	80,-
FCE 60K20 *	60	20	20	± 40	5,5	B	99,-	963-129	95,-

! * ONLY WHILE STOCKS LAST

Bench scale KERN GAB-N



05

Application examples:

- Small industrial scale for pharmacies
- Hand mixtures of tea, coffee, chocolates
- Portion division of dough, meat, fish, poultry, mixed salads in cafeterias etc.
- Weighing of fruits on site
- High-precision industrial applications

Note: In commercial trade, official verification duties exist

Price-performance-winner with EC type approval [M]

Features

- **Compact size**, practical for small spaces
- **High mobility:** thanks to battery operation (optional)
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual signal assists with portion division, dispensing or grading
- **Totalizing** of counting operations

Technical data

- Large backlit LCDdisplay, digit height 24 mm
- Dimensions of weighing plate (stainless steel) WxD 294x225 mm
- Overall dimensions WxDxH 320x330x125 mm
- Net weight approx. 3 kg
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Protective working cover,** KERN CFS-A02, € 25,-

- **Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03, € 250,-
- **Rechargeable battery pack internal,** operating time approx. 40 h, charging time approx. 12 h, charge condition indicator using three-colour LED, KERN GAB-A04, € 40,-
- **2nd data interface,** Y cable for parallel connection of two terminal devices to the RS 232 interface of the balance, e.g. of a printer, signal lamp etc. KERN CFS-A04, € 35,-
- **Suitable printers** see page 130

STANDARD



only with printer

OPTION



FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
								M III KERN	€	DKD KERN	€
GAB 6K0.05N	6	0,05	-	-	0,05	± 0,15	270,-	-	-	963-128	80,-
GAB 12K0.1N	12	0,1	-	-	0,1	± 0,3	270,-	-	-	963-128	80,-
GAB 30K0.2N	30	0,2	-	-	0,2	± 0,6	270,-	-	-	963-128	80,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
Dual-range balance (D = Dual): switches automatically to the next largest weighing range [Max] and readout [d].											
GAB 6K1DNM	3 6	1 2	1 2	20	1 2	± 1 ± 2	210,-	965-228	50,-	963-128	80,-
GAB 15K2DNM	6 15	2 5	2 5	40	2 5	± 2 ± 5	210,-	965-228	50,-	963-128	80,-
GAB 30K5DNM	15 30	5 10	5 10	100	5 10	± 5 ± 10	210,-	965-228	50,-	963-128	80,-

Bench scale KERN FCB



05

Bench scale with second display on the back of the scale

Features	Technical data	Accessories
<ul style="list-style-type: none"> • Second display on the rear of the balance • PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels • High mobility: Battery operation, compact construction and low weight make this balance ideal for use in several locations (production, warehouse, dispatch department, ...) 	<ul style="list-style-type: none"> • Backlit LCDdisplay, digit height 25 mm • Dimensions of weighing plate (stainless steel) WxD 252x228 mm • Overall dimensions WxDxH 270x345x106 mm • Optional battery operation, battery (9 V Block) not standard, operating time approx. 12 h • Net weight approx. 3 kg • Permissible ambient temperature 5 °C / 35 °C 	<ul style="list-style-type: none"> • Protective working cover over keyboard and housing, standard, can be reordered, KERN FCB-A02, € 25,- • Rechargeable battery pack internal, operating time approx. 5 h, charging time approx. 10 h, KERN FCB-A01, € 45,- • Suitable printers see page 130

STANDARD

CAL EXT RS 232 GLP PROTOCOL PCS RECIPE PERCENT UNIT MOVE BATT 230 V DMS 1 DAY 2 YEARS WARRANTY

OPTION

ACCU DKD +3 DAYS

only with printer

Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
							DKD KERN	€
KERN FCB 3K0.1	3	0,1	0,1	0,3	0,2	210,-	963-127	65,-
KERN FCB 8K0.1	8	0,1	0,1	0,3	0,2	220,-	963-128	80,-
KERN FCB 6K0.5	6	0,5	0,5	1,5	1	185,-	963-128	80,-
KERN FCB 12K1	12	1	1	3	2	170,-	963-128	80,-
KERN FCB 30K1	30	1	1	3	2	210,-	963-128	80,-
KERN FCB 24K2	24	2	2	6	4	170,-	963-128	80,-
KERN FCB 24K10 *	24	10	10	20	20	69,-	963-128	80,-

! * ONLY WHILE STOCKS LAST

Bench scale KERN FKB-A



05

Large bench scale up to 65 kg with large weighing plate

Features	Technical data	Accessories
<ul style="list-style-type: none"> • PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels • Particularly practical: thanks to the large weighing ranges and compact dimensions, you can weigh heavy loads in the most restricted of spaces • Freely programmable weighing unit, e.g. display directly in special units such as length of wire g/m, paper weight g/m², or similar 	<ul style="list-style-type: none"> • Large backlit LCDdisplay, digit height 25 mm • Dimensions of weighing plate (stainless steel) WxD 340x240 mm • Overall dimensions WxDxH 350x390x120 mm • Optional battery operation, 9 V Block, not included, operating time approx. 12 h • Net weight approx. 6,5 kg • Permissible ambient temperature 5 °C / 35 °C 	<ul style="list-style-type: none"> • Protective working cover over keyboard and housing standard, can be reordered, KERN FKB-A02, € 25,- • Rechargeable battery pack internal, operating time approx. 8 h, charging time approx. 10 h, KERN PCB-A01, € 55,- • Suitable printers see page 130

STANDARD

CAL EXT | RS 232 | PCS | RECIPE | PERCENT | UNIT | MOVE | UNDER | BATT | 230 V | DMS | 1 DAY | 2 YEARS WARRANTY

OPTION

ACCU | +3 DAYS | DKD

Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
							DKD KERN	€
FKB 8K0.1A	8	0,1	0,1	± 0,3	0,2	290,-	963-128	80,-
FKB 15K0.5A	15	0,5	0,5	± 1,5	1	280,-	963-128	80,-
FKB 15K1A	15	1	1	± 2	2	250,-	963-128	80,-
FKB 30K1A	30	1	1	± 3	2	280,-	963-128	80,-
FKB 65K1A	65	1	1	± 3	2	290,-	963-129	95,-
FKB 60K5A *	60	5	5	± 15	10	99,-	963-129	95,-
Dual-range balance (D = Dual): switches automatically to the next largest weighing range [Max] and readout [d].								
FKB 30K5DA *	15 30	5 10	5 10	± 15 ± 30	10	99,-	963-128	80,-
FKB 60K10DA *	30 60	10 20	10 20	± 30 ± 60	20	99,-	963-129	95,-

! * ONLY WHILE STOCKS LAST



05

Bench scale with laboratory accuracy

Features

- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Precise counting:** The automatic optimisation of reference weight gradually improves the average value of the piece weight, details see page 79
- **Percentage determination:** makes it possible to store a given weight value (100%) and to determine deviations from this target value

Technical data

- Backlit LCDdisplay, digit height 18 mm
- Dimensions of weighing plate (stainless steel) WxD 253x228 mm
- Overall dimensions WxDxH 270x345x106 mm
- Net weight approx. 3,3 kg
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing standard, can be reordered, KERN FCB-A02, € 25,-
- **Rechargeable battery pack internal**, operating time up to 5 h, charging time approx. 10 h, KERN FCB-A03B, € 45,-
- **Rechargeable battery pack external**, operating time approx. 15 h without back-light, charging time approx. 10 h, KERN KS-A01, € 180,-
- **Suitable printers** see page 130

STANDARD

CAL EXT
 RS 232
 GLP
 PCS
 RECIPE
 PERCENT
 UNIT
 MOVE
 230 V
 DMS
 1 DAY
 2 YEARS WARRANTY

only with printer

OPTION

ACCU
 DKD +3 DAYS

Model	Weighing range [Max] kg	Read-out [d] g	Min. piece weight [PW min] g/piece	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
					DKD KERN	€
FCB 6K0.02B	6	0,02	0,02	390,-	963-128	80,-
FCB 12K0.05B	12	0,05	0,05	370,-	963-128	80,-
FCB 12K0.1B	12	0,1	0,1	350,-	963-128	80,-
FCB 24K0.1B	24	0,1	0,1	370,-	963-128	80,-
FCB 24K0.2B	24	0,2	0,2	350,-	963-128	80,-



Large, high resolution bench scale, also with EC type approval [M]

Features	Technical data	Accessories
<ul style="list-style-type: none"> • PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels • Precise counting: The automatic optimisation of reference weight gradually improves the average value of the piece weight • not for FKB-M: Freely programmable weighing unit, e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar • Particularly practical: thanks to the large weighing ranges and compact dimensions, you can weigh heavy loads in the most restricted of spaces 	<ul style="list-style-type: none"> • Backlit LCDdisplay, digit height 18 mm • Dimensions of weighing plate (stainless steel) WxD 340x240 mm • Dimensions housing WxDxH 350x390x120 mm • Optional battery operation, batteries (6 x 1.5 V Size C) not standard, operating time approx. 70 h • Net weight approx. 6,5 kg • Permissible ambient temperature KERN FKB: 10 °C / 40 °C KERN FKB-M: 10 °C / 30 °C 	<ul style="list-style-type: none"> • Protective working cover over keyboard and housing, standard, can be reordered, KERN FKB-A02, € 25,- • only FKB: Rechargeable battery pack external, operating time up to 25 h, charging time approx. 10 h, KERN KS-A01, € 180,- • Tare pan made from stainless steel, details see page 132, KERN RFS-A02, € 45,- • Suitable printers see page 130

STANDARD											OPTION			FACTORY		
only with printer														only FKB-M		

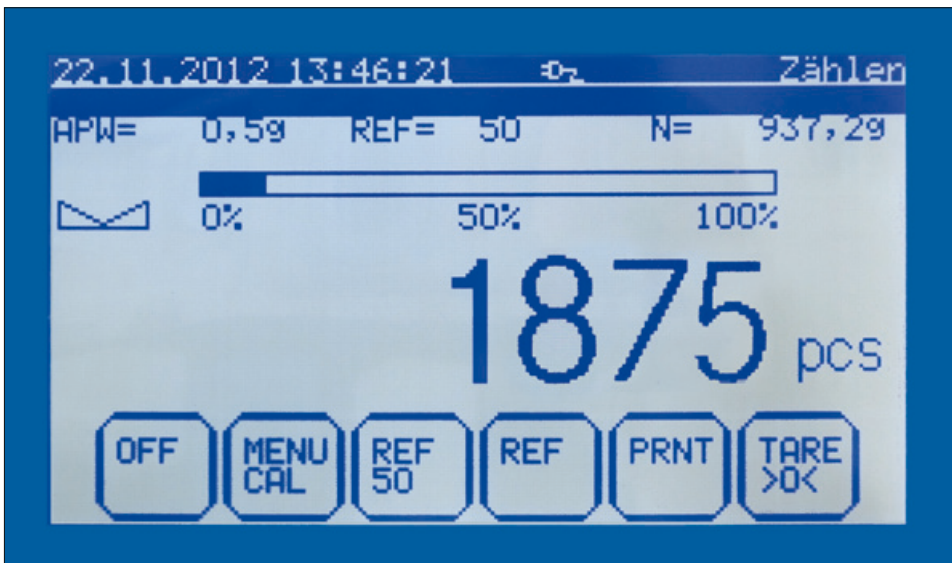
Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Price excl. of VAT ex works €	Options				
								Verification		DKD Calibr. Certificate		
									€		€	
FKB 6K0.02	6	0,02	-	0,02	± 0,1	0,02	450,-	-	-	963-128	80,-	
FKB 8K0.05	8	0,05	-	0,05	± 0,15	0,05	420,-	-	-	963-128	80,-	
FKB 16K0.05	16	0,05	-	0,05	± 0,15	0,05	450,-	-	-	963-128	80,-	
FKB 16K0.1	16	0,1	-	0,1	± 0,3	0,1	420,-	-	-	963-128	80,-	
FKB 36K0.1	36	0,1	-	0,1	± 0,5	0,1	460,-	-	-	963-128	80,-	
FKB 36K0.2	36	0,2	-	0,2	± 0,6	0,2	440,-	-	-	963-128	80,-	
FKB 65K0.2	65	0,2	-	0,2	± 1	0,2	460,-	-	-	963-129	95,-	
FKB 65K0.5	65	0,5	-	0,5	± 1,5	0,5	440,-	-	-	963-129	95,-	
Dual-range balance (D = Dual): switches automatically to the next largest weighing range [Max] and readout [d]. Verification at the factory, we need to know the full address of the location of use.												
FKB 8K0.1M	8	0,1	1	0,1	± 0,3	0,1	490,-		950-117	70,-	963-128	80,-
FKB 65K1M	65	1	10	1	± 2	1	510,-		950-118	100,-	963-129	95,-

Price reduction



05

Touchscreen industrial scale with enormous range of functions



Display at full size, operating mode Counting



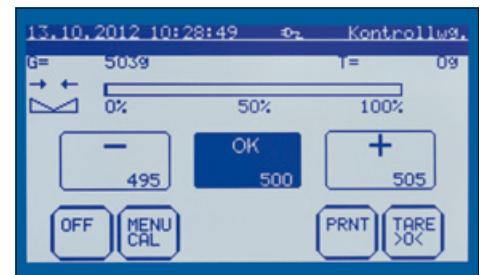
Clear menu structure with the keys labelled with plain text and touch-sensitive display
The menu and processes are self-explanatory. This reduces the training times, avoids operating errors and in this way, ensures more efficient functionality



Easy input of text and values
e.g. item descriptions, user name, weights for tare containers, etc. using large keypad



40 memories for each mode, for checkweighing, pre-tare, reference weight, target weight when dispensing etc.



Weighing with tolerance range (checkweighing): a visual and audible signal helps with portion division, dispensing or grading

Bench scale KERN FKT

Features

- **Innovative touchscreen:** Large touch-sensitive, backlit screen with very good contrast for easy operation and convenient reading
- **Maximum transparency:** All function keys are labelled with plain text which ensures that they are easily understood. The menu tree overlay in the info bar allows you to see at a glance which function is currently in use
- **Advantages:**
 - No more errors or lost time through keys which have several functions or unclear markings
 - Large keys, which can also be operated while wearing gloves
- **Convenient recipe weighing:** 5 recipes each with 7 components can be stored in plain text
- **Hook for underfloor weighing** to weigh hanging loads standard for models with weighing plate sizes **B**



Standard

Data interfaces

• Data interface RS-232

To connect the balance to a printer, PC or network

• Control outputs

(optocoupler, digital I/O)

to connect relays, signal lamps, valves etc. (35V / 80 mA)

Technical data

- Back-lit LCD graphic display with digit height 18 mm, screen diagonal 5.8" (approx. 147 mm)
- Dimensions of weighing plate WxD
 - A** 253x228 mm
 - B** 340x240 mm, see larger picture
- Overall dimensions WxDxH
 - A** 270x345x106 mm
 - B** 350x390x120 mm
- Optional battery operation, only for models with weighing plate sizes **B**, 6 x 1.5 V Size C not included, operating time approx. 20 h
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing, standard, can be reordered, for models with weighing plate sizes
 - A** KERN FCB-A02, € 25,-
 - B** KERN FKB-A02, € 25,-
- **Rechargeable battery pack external**, operating time up to 10 h, charging time approx. 10 h, KERN KS-A01, € 180,-
- **Signal lamp** for visual support of weighing with tolerance range, KERN IKT-A04, € 250,-
- **RS-232/Ethernet adapter**, to connect balances with an RS 232 interface to a network, using Ethernet, details see page 131, KERN YKI-01, € 390,-
- **Suitable printers** see page 130

Modes

- ① Weighing
- ② Counting
- ③ Dispensing
- ④ Recipe weighing
- ⑤ Checkweighing
- ⑥ Totalizing with daily total
- ⑦ Percentage determination
- ⑧ Animal weighing
- ⑨ Surface weight
- ⑩ Density determination, only with **B**, not for **M**
- ⑪ Rapid mode, not for **M**

Functions

- Capacity display, with ① - ②, ⑦, ⑨ - ⑩
- Dispensing assistance (subtractive, additive), with ①, ④
- Net/Gross display, permanently on, with ① - ⑩
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- Tare deduction numerical or from the memory unit, with ① - ⑩
- Input of item or batch description, operator etc., with ① - ⑩
- Freely programmable weighing unit, e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar, with ①, ⑨
- Date/time, with ① - ⑩
- Statistical function, with ①, ③, ⑤
- GLP printout, with ① - ⑩
- Individual printout configuration, with ① - ⑩

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Price excl. of VAT ex works €	Options			
										Verification		DKD Calibr. Certificate	
										MIII KERN	€	DKD KERN	€
KERN													
FKT 6K0.1	6	0,1	-	-	0,1	± 0,2	0,1	A	850,-	-	-	963-128	80,-
FKT 12K0.2	12	0,2	-	-	0,2	± 0,4	0,2	A	850,-	-	-	963-128	80,-
FKT 30K0.5L	30	0,5	-	-	0,5	± 1	0,5	B	850,-	-	-	963-128	80,-
FKT 60K1L	60	1	-	-	1	± 2	1	B	850,-	-	-	963-129	95,-
High-resolution display													
FKT 6K0.02	6	0,02	-	-	0,04	± 0,1	0,02	A	950,-	-	-	963-128	80,-
FKT 6K0.02L	6	0,02	-	-	0,04	± 0,1	0,02	B	990,-	-	-	963-128	80,-
FKT 6K0.05	6	0,05	-	-	0,1	± 0,15	0,05	A	890,-	-	-	963-128	80,-
FKT 12K0.05	12	0,05	-	-	0,05	± 0,15	0,05	A	950,-	-	-	963-128	80,-
FKT 16K0.05L	16	0,05	-	-	0,1	± 0,25	0,05	B	990,-	-	-	963-128	80,-
FKT 12K0.1	12	0,1	-	-	0,1	± 0,3	0,1	A	890,-	-	-	963-128	80,-
FKT 16K0.1L	16	0,1	-	-	0,1	± 0,3	0,1	B	920,-	-	-	963-128	80,-
FKT 24K0.1	24	0,1	-	-	0,1	± 0,3	0,1	A	950,-	-	-	963-128	80,-
FKT 36K0.1L	36	0,1	-	-	0,2	± 0,5	0,1	B	990,-	-	-	963-128	80,-
FKT 24K0.2	24	0,2	-	-	0,2	± 0,6	0,2	A	890,-	-	-	963-128	80,-
FKT 36K0.2L	36	0,2	-	-	0,2	± 0,6	0,2	B	920,-	-	-	963-128	80,-
FKT 65K0.2L	65	0,2	-	-	0,4	± 1	0,2	B	990,-	-	-	963-129	95,-
FKT 65K0.5L	65	0,5	-	-	0,5	± 1,5	0,5	B	920,-	-	-	963-129	95,-
Dual-range balance (D = Dual): switches automatically to the next largest weighing range [Max] and readout [d]. Verification at the factory, we need to know the full address of the location of use.													
FKT 6K1LM	6	1	1	20	0,5	± 0,5	1	B	990,-	950-128	50,-	963-128	80,-
FKT 12K2LM	12	2	2	40	1	± 1	1	B	990,-	950-128	50,-	963-128	80,-
FKT 30K5LM	30	5	5	100	2,5	± 2,5	5	B	990,-	950-128	50,-	963-128	80,-
FKT 60K10LM	60	10	10	200	5	± 5	10	B	990,-	950-129	75,-	963-129	95,-

6 Stainless steel / IP65...68 Protection

KERN Model	Page
WTB-N	Ideal in the food industry, protected by IP65, easy to clean 68
FOB FOB-S	Compact stainless steel scale, also with EC type approval [M] 69
FFN-N	Robust, space-saving bench scale, protected by stainless steel and IP65 protection 70
SFE	Platform scale with dust and spray protection IP65 and EC type approval [M] 71
SFB-H	Stainless steel platform scale with dust and spray protection IP65 and EC type approval [M] 72
SFB	Stainless steel platform scale with IP65, XL platform and EC type approval [M] 73
BFN	Stainless steel floor scale in XL size with IP68 platform 106



KERN balances - not scared of water at all!

Balances used in industrial situations are often subject to extreme stresses and strains. Water, oils, fats, varnish, dust, dirt, flour, small parts, etc. are all natural enemies of a balance. In industries such as the chemical, pharmaceutical, food, manufacturing industries, etc. balances must be able to cope with these stresses without this affecting their performance.

For use in such harsh environmental conditions, levels of protection are defined, which specify which environmental stresses a system can be exposed to in regards to the level of contact, foreign body and moisture protection, without causing damage to the unit. These levels of protection are described in the following standard: „DIN EN 60529: types of protection, 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 and protection against foreign bodies (protection against dust), the second digit is for the water and moisture protection (protection against splashes of water).

KERN stainless steel balances and balances with special IP protection will impress you with their sophisticated design coupled with high-quality material, robust construction and perfect finish. They have been specially

developed for use in hygienically sensitive applications, amongst other applications. Cleaning is easy and hygienic because of the smooth upper surfaces and the materials used.

The weighing ranges for the models available with the special level of protection range from 0.5 kg – 1.5 t and thereby cover the majority of industrial applications, such as for example, portioning of food, weighing ingredients, filling cans, bottles, ... in the food sector, weighing and checking of oily or greasy parts in production or weighing and mixing of paints, lacquers and solvents in decorating companies and paint shops.



Your KERN product specialist will be happy to help:

Danielle Bergfeld
Product specialist stainless steel scales

Tel. +49-(0) 7433-9933-161

Fax +49-(0) 7433-9933-29161

bergfeld@kern-sohn.com

Extract from the standard: „DIN EN 60529: types of protection, housing“:

KERN-Pictogram	1. Number	Specification	2. Number	Specification
	6	Dustproof	5	Designed for temporary contact with liquids. Use a damp cloth for cleaning.
	6	Dustproof	7	Designed for temporary use in wet areas. Temporary submersion is possible.
	6	Dustproof	8	Designed for continuous use in wet areas. Submersion is possible.

Quick-Finder

■ = Standard □ = Option

Read-out d	Weighing range Max	Model KERN	Price € excl. VAT ex works	Page											For an explanation of the symbols, see the flap of the envelope									
0,1 g	0,5 kg	FOB 500-1S	70,-	69	1		■						■											
0,2 g	1,5 kg	WTB 1K-4N	220,-	68	1		■			■		■		□										
0,5 g	1,5 kg	FOB 1.5K0.5	170,-	69	1		■						■	□										
0,5 g	3 kg	WTB 3K-4N	220,-	68	1		■			■		■		□										
0,5 g	3 kg	FFN 3K0.5IPN	240,-	70	1		■					■	■	■										
0,5 g	7,5 kg	FOB 7.5K0.5L	320,-	69	1		■						■	□										
1 g	1 kg	FOB 1K1M	170,-	69	1	■	■						■	□										
1 g	3 kg	FOB 3K1	170,-	69	1		■						■	□										
1 g	3 kg	FFN 3K1IPM	260,-	70	1	■	■					■	■	■										
1 g	5 kg	FOB 5K1S	70,-	69	1		■						■											
1 g	6 kg	WTB 6K-3N	220,-	68	1		■			■		■		□										
1 g	6 kg	FFN 6K1IPN	240,-	70	1		■					■	■	■										
1 g	10 kg	SFB 10K1HIP	670,-	72	1		■		□	■		■	■	■										
1 g	15 kg	FOB 15K1L	320,-	69	1		■						■	□										
2 g	2 kg	FOB 2K2M	170,-	69	1	■	■						■	□										
2 g	6 kg	FOB 6K2	170,-	69	1		■						■	□										
2 g	6 kg	FOB 6K2LM	320,-	69	1	■	■						■	□										
2 g	6 kg	FFN 6K2IPM	260,-	70	1	■	■					■	■	■										
2 g	10 kg	WTB 10K-3N	220,-	68	1		■			■		■		□										
2 g	15 kg	FFN 15K2IPN	240,-	70	1		■					■	■	■										
2 g	20 kg	SFB 20K2HIP	650,-	72	1		■		□	■		■	■	■										
2 g	30 kg	FOB 30K2L	320,-	69	1		■						■	□										
5 g	5 kg	FOB 5K5M	170,-	69	1	■	■						■	□										
5 g	15 kg	FOB 15K5LM	320,-	69	1	■	■						■	□										
5 g	15 kg	FFN 15K5IPM	260,-	70	1	■	■					■	■	■										
5 g	15 kg	SFE 15K5IPM	320,-	71	1	■	■			■		■	■	■										
5 g	15 kg	SFB 15K5HIPM	650,-	72	1	■	■		□	■		■	■	■										
5 g	25 kg	FFN 25K5IPN	240,-	70	1		■					■	■	■										
5 g	50 kg	SFB 50K5HIP	650,-	72	1		■		□	■		■	■	■										
5 g	50 kg	SFB 50K5LHIP	690,-	72	1		■		□	■		■	■	■										
5 g	50 kg	SFB 50K-3XL	820,-	73	1		■		□	■		■	■	■										
10 g	25 kg	FFN 25K10IPM	260,-	70	1	■	■					■	■	■										
10 g	30 kg	FOB 30K10LM	320,-	69	1	■	■						■	□										
10 g	30 kg	SFE 30K10IPM	320,-	71	1	■	■			■		■	■	■										
10 g	30 kg	SFB 30K10HIPM	650,-	72	1	■	■		□	■		■	■	■										
10 g	100 kg	SFB 100K10HIP	720,-	72	1		■		□	■		■	■	■										
10 g	100 kg	SFB 100K-2L	850,-	73	1		■		□	■		■	■	■										
10 g	100 kg	SFB 100K-2XL	1080,-	73	1		■		□	■		■	■	■										
20 g	60 kg	SFE 60K20IPM	360,-	71	1	■	■			■		■	■	■										
20 g	60 kg	SFB 60K20HIPM	650,-	72	1	■	■		□	■		■	■	■										
20 g	60 kg	SFB 60K20LHIPM	680,-	72	1	■	■		□	■		■	■	■										
20 g	60 kg	SFB 60K-2XLM	850,-	73	1	■	■		□	■		■	■	■										
20 g	200 kg	SFB 200K-2XL	1080,-	73	1		■		□	■		■	■	■										
50 g	120 kg	SFB 120K50HIPM	710,-	72	1	■	■		□	■		■	■	■										
50 g	150 kg	SFB 100K-2LM	850,-	73	1	■	■		□	■		■	■	■										
50 g	150 kg	SFB 100K-2XLM	1080,-	73	1	■	■		□	■		■	■	■										
100 g	300 kg	SFB 300K-1LM	1080,-	73	1	■	■		□	■		■	■	■										

IP protected bench scale KERN WTB-N

NEW



06

Ideal in the food industry, protected by IP65, easy to clean

Features

- **Suitable for the ever-increasing hygienic requirements in the food industry**
- **IP65:** Protected against dust and water splashes (only when using rechargeable battery pack)
- **1 Second display** on the rear of the balance
- **Carrying grips on the underside** of the scale for easy transportation
- **Innovative weighing with tolerance range** (Checkweighing): The colour of the display changes depending on the weight (too light/ok/too heavy) and is aid to help with portion division, dosing and grading
- **High mobility** thanks to its rechargeable batteries (optional) and low weight
- **Compact size**, practical for small spaces

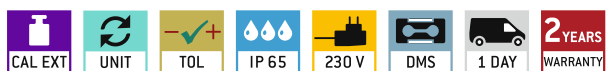
Technical data

- Large backlit LCDdisplay, digit height 25 mm
- Dimensions of weighing plate WxD 260x200 mm
- Overall dimensions WxDxH 286x316x126.5 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Rechargeable battery pack internal**, operating time up to 50 h without backlight, charging time approx. 12 h, charge condition indicator on display, can be reordered, KERN WTB-A01N, **€ 25,-**
- **2 Tare pan made from stainless steel**, ideal for weighing loose fruit and vegetables, WxDxH 370x240x20 mm, KERN RFS-A02, **€ 45,-**

STANDARD



OPTION



Model	Weighing range [Max] g	Read-out [d] mg	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
						DKD KERN	€
KERN WTB 1K-4N	1,5	0,2	0,2	± 0,4	220,-	963-127	65,-
WTB 3K-4N	3	0,5	0,5	± 1	220,-	963-127	65,-
WTB 6K-3N	6	1	1	± 2	220,-	963-128	80,-
WTB 10K-3N	15	2	2	± 4	220,-	963-128	80,-
WTB 30K-3N	30	5	5	± 10	220,-	963-128	80,-

Stainless steel bench scales KERN FOB · FOB-S



KERN FOB

KERN FOB-S

Compact stainless steel scale, also with EC type approval [M]

Features

- **Stainless steel design** of the housing and weighing plate. Its smooth surfaces make it simple to clean
- only FOB, -L, -M: **Increased protection against humidity** by means of waterproof silicone sealing of the load cell, electronics and soldering joints
- **High mobility:** thanks to compact, flat construction, it is suitable for use in several locations (kitchen, sales office, market stall, ...)
- only FOB, -L: **Net/Gross weight:** to control the consumed weighing range at the touch of a key
- only FOB-S: Ready for use: batteries (9 V Block) standard, operating time approx. 20 h. AUTO-OFF function to preserve the batteries, can be switched off

Technical data

- Large backlit LCDdisplay, digit height 25 mm
- Dimensions of weighing plate, stainless steel WxD
 - A** 120x150 mm, **B** 175x160 mm
 - C** 215x215 mm, see larger picture left
- Overall dimensions WxDxH
 - A** 170x150x40 mm, **B** 175x235x60 mm
 - C** 220x305x80 mm
- Net weight
 - A** approx. 0,65 kg, **B** approx. 1,95 kg, **C** approx. 3,3 kg
- Permissible ambient temperature
 - A** 10 °C / 40 °C; **B, C** -10 °C / 40 °C

Accessories

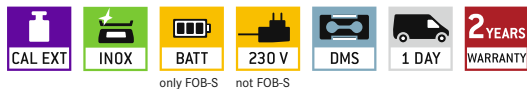
for FOB, -L, -M:

- **Protective working cover** over keyboard and housing, standard (not for FOB-S), can be reordered, for models with weighing plate sizes
 - B** KERN FOB-A05, € 25,-
 - C** KERN FOB-A06, € 25,-
- **Rechargeable battery pack internal,** charge condition indicator using three-colour LED, for weighing plate size
 - B** operating time approx. 24 h, charging time approx. 8 h, KERN FOB-A07, € 35,-
 - C** operating time approx. 30 h, charging time approx. 14 h, KERN FOB-A08, € 35,-

for FOB-S:

- **Mains adapter external** not included, can be reordered, KERN FOB-A09, € 15,-

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Read-out [d] mg	Verific. value [e] mg	Minimum load [Min] mg	Weighing plate	Price excl. of VAT ex works €	Options			
							Verification		DKD Calibr. Certificate	
							M III KERN	€	DKD KERN	€
FOB 500-1S	0,5	0,1	-	-	A	70,-	-	-	963-127	65,-
FOB 1.5K0.5	1,5	0,5	-	-	B	170,-	-	-	963-127	65,-
FOB 7.5K0.5L	7,5	0,5	-	-	C	320,-	-	-	963-128	80,-
FOB 3K1	3	1	-	-	B	170,-	-	-	963-127	65,-
FOB 5K1S	5	1	-	-	A	70,-	-	-	963-127	65,-
FOB 15K1L	15	1	-	-	C	320,-	-	-	963-128	80,-
FOB 6K2	6	2	-	-	B	170,-	-	-	963-128	80,-
FOB 30K2L	30	2	-	-	C	320,-	-	-	963-128	80,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.										
FOB 1K1M	1	1	1	20	B	170,-	965-227	50,-	963-127	65,-
FOB 2K2M	2	2	2	40	B	170,-	965-227	50,-	963-127	65,-
FOB 6K2LM	6	2	2	40	C	320,-	965-228	50,-	963-128	80,-
FOB 5K5M	5	5	5	100	B	170,-	965-227	50,-	963-127	65,-
FOB 15K5LM	15	5	5	100	C	320,-	965-228	50,-	963-128	80,-
FOB 30K10LM	30	10	10	200	C	320,-	965-228	50,-	963-128	80,-

■ New model

IP protected bench scale KERN FFN-N



Robust, space-saving bench scale, protected by stainless steel and IP65, also with EC type approval [M]

Features

- **1 Ideal for the food industry**
- **2 Ideal for the robust industry**
- **High mobility:** thanks to battery operation, compact construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department, ...)
- **Stainless steel housing,** rust-proof and easy to clean
- **Level indicator and foot screws** to level the balance precisely, fitted as standard, to give the most accurate weighing results
- **Carrying grips on the underside** of the scale for easy transportation

- **3 IP65:** Protected against dust and water splashes (only when using rechargeable battery pack)

Technical data

- Large LCD display, digit height 25 mm
- Dimensions of weighing plate (stainless steel) WxD 230x190 mm
- Overall dimensions 230x300x130 mm
- Rechargeable battery pack internal, standard, operating time up to 50 h, charging time approx. 12 h
- Net weight approx. 3,2 kg
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Tare pan made from stainless steel,** ideal for weighing loose small parts, fruit, vegetables etc., WxDxH 370x240x20 mm, KERN RFS-A02, € 45,-

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Read-out [d] mg	Verific. value [e] mg	Minimum load [Min] mg	Price excl. of VAT ex works €	Options			
						Verification		DKD Calibr. Certificate	
						M M KERN	€	DKD KERN	€
FFN 3K0.5IPN	3	0,5	-	-	240,-	-	-	963-127	65,-
FFN 6K1IPN	6	1	-	-	240,-	-	-	963-128	80,-
FFN 15K2IPN	15	2	-	-	240,-	-	-	963-128	80,-
FFN 25K5IPN	25	5	-	-	240,-	-	-	963-128	80,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.									
FFN 3K1IPM	3	1	1	20	260,-	965-227	50,-	963-127	65,-
FFN 6K2IPM	6	2	2	40	260,-	965-228	50,-	963-128	80,-
FFN 15K5IPM	15	5	5	100	260,-	965-228	50,-	963-128	80,-
FFN 25K10IPM	25	10	10	200	260,-	965-228	50,-	963-128	80,-

IP protected platform scale KERN SFE



Platform balance with dust and spray protection IP65 and with EC type approval [M]

Features

- Robust stainless steel display device, ideal for industrial applications, for easy and hygienic cleaning
- **Load cells aluminium, silicone-coated.**
IP65: Protected against dust and water splashes
- **Stainless steel-weighing plate,** painted steel base
- **Display device KERN KFE-TM,** details see page 113
- **Flexible positioning of display device:** eg. free-standing or mounted to the wall
- **Weighing with tolerance range (check-weighing):** Input of an upper/lower limit value. A visual and audible signal assists with portion division, dispensing or grading

- **Vibration-free weighing:** at the push of a button, a stable average weight is given when the environmental conditions are unstable or when weighing animals
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels (only for non-verified models)

- Rechargeable battery pack internal, standard, operating time approx. 35 h without backlight, charging time approx. 12 h. Charge condition indicator on display
- Permissible ambient temperature -10 °C / 40 °C

Technical data

- Large backlit LCDdisplay, digit height 22 mm
- Dimensions of weighing plate WxDxH
 - A** 300x240x100 mm
 - B** 400x300x128 mm
- Dimensions of display device WxDxH 195x118x83 mm
- Cable length of display device approx. 1,5 m

Accessories

- **Tare pan made from stainless steel,** ideal for weighing loose screws, small parts etc., WxDxH 370x240x20 mm, KERN RFS-A02, **€ 45,-**
- **Stand** to elevate display device, height of stand approx. 200 mm, KERN SFE-A01, **€ 50,-**

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Read-out [d] mg	Verific. value [e] mg	Minimum load [Min] mg	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
								M III KERN	€	DKD KERN	€
SFE 15K5IPM	15	5	5	100	6,5	A	320,-	965-228	50,-	963-128	80,-
SFE 30K10IPM	30	10	10	200	6,5	A	320,-	965-228	50,-	963-128	80,-
SFE 60K20IPM	60	20	20	400	8	B	360,-	965-229	75,-	963-129	95,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Stainless steel platform scale KERN SFB-H



Stainless steel platform balance with dust and spray protection to IP65 and EC type approval [M]

Features

- **1 Ideal for the robust industry**
- **2** Scale entirely out of stainless steel
- **Load cell stainless steel**, silicone-coated.
Note: Silicone is not suitable for contact with aggressive substances such as acids etc. or for continuous use in wet areas.
- **Stand** to elevate display device, standard, for models with weighing plate sizes
A height of stand approx. 200 mm
B height of stand approx. 400 mm

- **Level indicator and foot screws** to level the balance precisely, fitted as standard, to give the most accurate weighing results

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of weighing plate (stainless steel) WxDxH
A 300x240 mm
B 400x300 mm, see larger picture
- Dimensions of display device WxDxH 266x165x96 mm

- Cable length of display device approx. 2 m
- Rechargeable battery pack internal, standard, operating time approx. 80 h, charging time approx. 12 h
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Data interface RS-232**, interface cable included, approx. 1.5 m, must be ordered at purchase, KERN KFN-A01, € 65,-
- **Suitable printers** see page 130

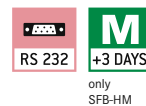
STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Read-out [d] mg	Verific. value [e] mg	Minimum load [Min] mg	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
								M III KERN	€	DKD KERN	€
SFB 10K1HIP	10	1	-	-	9	A	670,-	-	-	963-128	80,-
SFB 20K2HIP	20	2	-	-	9	A	650,-	-	-	963-128	80,-
SFB 50K5HIP	50	5	-	-	9	A	650,-	-	-	963-128	80,-
SFB 50K5LHIP	50	5	-	-	14	B	690,-	-	-	963-128	80,-
SFB 100K10HIP	100	10	-	-	14	B	720,-	-	-	963-129	95,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

SFB 15K5HIPM	15	5	5	100	9	A	650,-	965-228	50,-	963-128	80,-
SFB 30K10HIPM	30	10	10	200	9	A	650,-	965-228	50,-	963-128	80,-
SFB 60K20HIPM	60	20	20	400	9	A	650,-	965-229	75,-	963-129	95,-
SFB 60K20LHIPM	60	20	20	400	14	B	680,-	965-229	75,-	963-129	95,-
SFB 120K50HIPM	120	50	50	1000	14	B	710,-	965-229	75,-	963-129	95,-

Stainless steel platform scale KERN SFB



06

Stainless steel platform balance with IP65, XL platform and EC type approval [M]

Features

- **Ideal for the robust industry. Industrial quality:** robust version, easy to clean. Suitable for the everincreasing hygienic requirements in the food industry
- **Scale** entirely out of stainless steel
- **Load cell stainless steel**, silicone-coated. Note: Silicone is not suitable for contact with aggressive substances such as acids etc. or for continuous use in wet areas.
- **Flexible positioning of display device:** eg. free-standing or mounted to the wall
- Superior display size: digit height 52 mm. Bright backlight for easy reading of weight, even in poor lighting conditions

- **Level indicator and foot screws** to level the balance precisely, fitted as standard, to give the most accurate weighing results

Technical data

- Large backlit LCDdisplay, digit height 52 mm
- Dimensions of weighing plate (stainless steel) WxDxH
A 500x400 mm, see larger picture
B 650x500 mm
- Dimensions of display device WxDxH 266x165x96 mm
- Cable length of display device approx. 2,5 m

- Rechargeable battery pack internal, standard, operating time approx. 80 h, charging time approx. 12 h
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Data interface RS-232**, interface cable included, approx. 1.5 m, must be ordered at purchase, KERN KFN-A01, € 65,-
- **Stand** to elevate display device, height of stand approx. 600 mm, KERN SFB-A01, € 65,-
- **Suitable printers** see page 130

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Read-out [d] mg	Verific. value [e] mg	Minimum load [Min] mg	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
								M III KERN	€	DKD KERN	€
SFB 50K-3XL	50	5	-	-	15	A	820,-	-	-	963-128	80,-
SFB 100K-2L	100	10	-	-	15	A	850,-	-	-	963-129	95,-
SFB 100K-2XL	100	10	-	-	24,5	B	1080,-	-	-	963-129	95,-
SFB 200K-2XL	200	20	-	-	24,5	B	1080,-	-	-	963-129	95,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
SFB 60K-2XLM	60	20	20	400	15	A	850,-	965-229	75,-	963-129	95,-
SFB 100K-2LM	150	50	50	1000	15	A	850,-	965-229	75,-	963-129	95,-
SFB 100K-2XLM	150	50	50	1000	24,5	B	1080,-	965-229	75,-	963-129	95,-
SFB 300K-1LM	300	100	100	2000	24,5	B	1080,-	965-229	75,-	963-129	95,-

Price computing scale KERN RXB



Entry level model for your retail business, with EC type approval [M]

Features

- **Elevated display** backlit, revolving on column, height of stand approx. 540 mm, only RXB-HM, must be ordered at purchase
- **Second display** on the rear of the balance (only with models without the elevated display)
- **Three displays** for weight (verifiable), unit price, total price
- **Unit price can be switched** from €/kg to €/100 g
- **FIX key:** Unit price can be stored for further weighings of the same article
- **Energy management:** Backlight turns off after 5 sec, can be switched off

- **Soil-resistant construction** with water channels at the edge of the housing and sealing rings over the upper housing inlets

Technical data

- Large backlit LCD displays, digit height 18 mm
- Dimensions of weighing plate, stainless steel WxD 300x225 mm
- Overall dimensions WxDxH 300x330x110 mm
- Rechargeable battery pack internal, standard, operating time approx. 200 h, charging time approx. 8 h, Charge condition indicator using three-colour LED
- Net weight approx. 4,4 kg

Application examples:

- retail shops
- market places
- farm shops
- pick your own fruit and vegetable sales

Note: In commercial trade, official verification duties exist

Accessories

- **Protective working cover** over keyboard and housing standard, can be reordered, KERN CXB-A01, € 25,-
- **Tare pan made from stainless steel**, ideal for weighing loose fruit and vegetables, WxDxH 370x240x20 mm, KERN RFS-A02, € 45,-

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Price excl. of VAT ex works €	Options				
						Verification		DKD Calibr. Certificate		
						M KERN	€	DKD KERN	€	
RXB 3K1M	3	1	1	20	220,-	965-227	50,-	963-127	65,-	
RXB 6K2M	6	2	2	40	220,-	965-228	50,-	963-128	80,-	
RXB 15K5M	15	5	5	100	220,-	965-228	50,-	963-128	80,-	
RXB 30K10M	30	10	10	200	220,-	965-228	50,-	963-128	80,-	
with elevated display										
RXB 3K1HM	3	1	1	20	250,-	965-227	50,-	963-127	65,-	
RXB 6K2HM	6	2	2	40	250,-	965-228	50,-	963-128	80,-	
RXB 15K5HM	15	5	5	100	250,-	965-228	50,-	963-128	80,-	
RXB 30K10HM	30	10	10	200	250,-	965-228	50,-	963-128	80,-	

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Price computing scale KERN RFB



Note: In commercial trade, official verification duties exist

Compact entry level retail scale, with dust and spray protection IP65 and EC type approval [M]

Features

Technical data

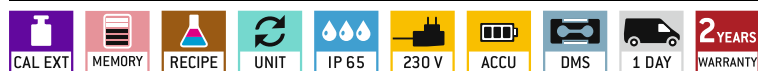
Accessories

- **Soil-resistant construction** with water channels at the edge of the housing and sealing rings over the upper housing inlets
- **IP65:** Protected against dust and water splashes (only when using rechargeable battery pack and without RS-232 usage)
- **Second display** on the rear of the balance
- **Three displays** for: weight (verifiable), unit price, total price
- **Unit price can be switched** from €/kg to €/100 g
- **4 direct price keys (PLU)** for frequently recurring article prices
- **High mobility** thanks to its rechargeable batteries and low weight
- **Compact size**, practical for small spaces

- Large backlit LCD displays, digit height 24 mm
- Dimensions of weighing plate WxD 260x200 mm
- Overall dimensions WxDxH 286x316x126 mm
- Rechargeable battery pack internal, standard, operating time approx. 60 h, charging time approx. 12 h. Charge condition indicator using three-colour LED
- Net weight approx. 4,2 kg
- Permissible ambient temperature -10 °C / 40 °C

- **Tare pan made from stainless steel**, ideal for weighing loose fruit and vegetables, WxDxH 370x240x20 mm, KERN RFS-A02, € 45,-
- **Protective working cover** over keyboard and housing, standard, can be reordered, KERN RFB-A01, € 25,-

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Reproducibility g	Price excl. of VAT ex works €	Options			
							Verification		DKD Calibr. Certificate	
							MID KERN	€	DKD KERN	€
RFB 3K11PM	3	1	1	20	1	250,-	965-227	50,-	963-127	65,-
RFB 6K21PM	6	2	2	40	2	250,-	965-228	50,-	963-128	80,-
RFB 15K51PM	15	5	5	100	5	250,-	965-228	50,-	963-128	80,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Price computing scale KERN RPB



Retail scale with EC type approval [M] and memory for article prices

Features

- **1 Elevated display** backlit, revolving on column, height of stand approx. 530 mm, only RPB-HM, must be ordered at purchase
- **2 Second display** on the rear of the balance, standard (only with models without the elevated display)
- **Three displays** for: weight (verifiable), unit price, total price
- **Unit price can be switched** from €/kg to €/100 g
- **Memory (PLU) for 10 article prices**
- **Auto-clear-key:** Unit price entry is automatically set to zero when scale is unloaded

- **3 High mobility** thanks to its rechargeable batteries (optional) and low weight

Technical data

- Large backlit LCD displays, digit height 20 mm
- Dimensions of weighing plate (stainless steel) WxD 294x225 mm
- Overall dimensions WxDxH 320x350x125 mm
- Net weight approx. 3,9 kg
- Permissible ambient temperature -10 °C / 40 °C

Application examples:

- retail shops
- market places
- farm shops
- pick your own fruit and vegetable sales

Note: In commercial trade, official verification duties exist

Accessories

- **Protective working cover** standard, can be reordered, KERN CFS-A02, € 25,-
- **Rechargeable battery pack internal**, operating time approx. 80 h without back-light, charging time approx. 14 h (internal charging with mains adapter). AUTO-OFF function to preserve the battery, can be switched off. Charge condition indicator using three-colour LED, KERN GAB-A04, € 40,-
- **Tare pan made from stainless steel**, ideal for weighing loose fruit and vegetables, WxDxH 370x240x20 mm, KERN RFS-A02, € 45,-

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
KERN								MIII KERN	€	DKD KERN	€
Dual-range balance (D=Dual): switches automatically to the next largest weighing range [Max] and readout [d]											
RPB 6K1DM	3 6	1 2	1 2	20	1 2	± 1 ± 2	205,-	965-228	50,-	963-128	80,-
RPB 15K2DM	6 15	2 5	2 5	40	2 5	± 2 ± 5	205,-	965-228	50,-	963-128	80,-
RPB 30K5DM	15 30	5 10	5 10	100	5 10	± 5 ± 10	205,-	965-228	50,-	963-128	80,-
with elevated display											
RPB 6K1DHM	3 6	1 2	1 2	20	1 2	± 1 ± 2	230,-	965-228	50,-	963-128	80,-
RPB 15K2DHM	6 15	2 5	2 5	40	2 5	± 2 ± 5	230,-	965-228	50,-	963-128	80,-
RPB 30K5DHM	15 30	5 10	5 10	100	5 10	± 5 ± 10	230,-	965-228	50,-	963-128	80,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Price computing scale KERN RFS



07

Retail scale with integrated receipt printer, with EC type approval [M]

Features

- **Easy to use:** user-friendly processing of PLU, price entry, price change etc. using the alphanumeric keyboard
- **High mobility:** thanks to high battery operating time (up to 50 h, without print function), compact, flat construction and low weight, it is ideally suited for use on weekly markets, for independent market traders etc.
- **Internal printer:** Robust high-speed printer. Fast and easy change of paper rolls thanks to innovative paper compartment construction
- Print out of all weighing data in all languages in the Euro-zone (except GR, CZ)
- **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
- **28 PLU** for frequently recurring article prices, as well as 99 additional memories (PLU)
- **Elevated display** backlit, on column, height approx. 470 mm
- **Three displays** for weight (verifiable), unit price, total price
- **Note:** This model does not have VAT calculation and -output, daily or weekly totals memory, label printing function, print out of PLU lists, multi-operator function, print out of headers/footers

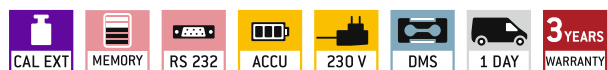
Technical data

- Dimensions of weighing plate (stainless steel) WxD 370x240 mm
- Overall dimensions WxDxH 370x410x470 mm
- Net weight approx. 7 kg
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Thermal receipt rolls** (pack of 10), width 56 mm, Ø 51 mm, KERN RFS-A10, € 35,-
- **Tare pan made from stainless steel**, ideal for weighing loose fruit and vegetables, WxDxH 370x240x20 mm, KERN RFS-A02, € 45,-

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Option Verification	
								M III KERN	€
RFS 6K2HM	6	2	2	40	2	± 2	460,-	965-228	50,-
RFS 15K5HM	15	5	5	100	5	± 5	460,-	965-228	50,-
RFS 30K10HM	30	10	10	200	10	± 10	460,-	965-228	50,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

8 Counting scales / Counting systems

KERN Model	Page	
CXB	Entry level model in professional counting, also with EC type approval [M], counting resolution of 30,000 points	81
CPB	The economical model, also with EC type approval [M], counting resolution of 60,000 points	82
CFS	Professional counting scale with 100 item memories and second balance interface, counting resolution up to 75,000 points	83
CKE	Easy to use, self-explanatory counting balance with laboratory accuracy, counting resolution up to 361,000 points	84
IFS-N	Industrial counting scale with convenient keypad for easy data entry, counting resolution up to 60,000 points	85
CDS	Easy to use industrial counting scale for heavy loads, counting resolution up to 300,000 points	86
CCS	Counting the smallest parts in the largest quantities, counting resolution up to 6 Mio. points	87



Counting, doing it right!

In order to be able to count correctly, you must take a few parameters into account when you first start to consider selecting a counting scale.

Smallest part weight „PW min“

This is the smallest piece weight the scale will accept for piece counting and displaying piece count. In practice, however, depending on the required accuracy, using higher numbers of parts is recommended for the smallest counted parts, see „Smallest reference weight“.

→ Counting resolution

Describes the maximum quantity which can be counted with a counting accuracy of 1%, with the minimum variation of item weights and a sufficiently large reference quantity (20 pieces with counting resolution $\leq 60,000$ points, 50 pieces from 60,000 - 150,000 points, 100 pieces $\geq 150,000$ points). This is therefore a measure of the quality of the counting scale.

Recommended → reference quantity

The weight tolerances of the pieces to be counted are the largest 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 scale, the so-called reference quantity.

Usually this would be:

- 5 pieces >> often sufficient
- 10 pieces >> common practise
- 20+ pieces >> with large range of piece weights

The „automatic reference optimisation“ function increases the reference quantity in levels, whereby the average piece weight is optimised step by step. This contributes considerably to the accuracy of the subsequent counting processes.

Smallest → reference weight

Without automatic reference optimisation:

- 5 x PW min >> for low level requirements
- 10 x PW min >> common practise
- 20+ x PW min >> recommended value with large range of piece weights

With automatic reference optimisation:
2 x PW min >> generally sufficient

Which counting scale for which application?

Simple counting scale

with self-explanatory user guidance on the keyboard. The graphics control panel enables you to start working immediately, without having to study 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 piece count of all pieces. Integrated memories are very useful, e.g. for container weight, item number, reference weight as well as audible and visual counting assistance and an alphanumeric key pad for easy data entry.

A special tip for counting large quantities: Counting systems

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

→ See the glossary on page 158/159



Your KERN product specialist will be happy to help:

Tanja Jetter
Product specialist counting scales
 Tel. +49-(0) 7433-9933-168
 Fax +49-(0) 7433-9933-29168
 tanja.jetter@kern-sohn.com

Quick-Finder

■ = Standard □ = Option

Read-out	Weighing range	Model	Price € excl. VAT ex works	Page	DAYS ready for shipping									
d	Max	KERN				For an explanation of the symbols, see the flap of the envelope								
0,01 g	2 kg	CKE 2000-2	350,-	84	1		■		■		■		□	
00,1 g	3 kg	CFS 3K-5	290,-	83	1		■	■	■	■	■	■	□	
0,01 g	3,6 kg	CKE 3600-2	370,-	84	1		■		■		■		□	
0,02 g	6 kg	CKE 6K0.02	440,-	84	1		■		■		■		□	■
0,05 g	8 kg	CKE 8K0.05	400,-	84	1		■		■		■		□	■
0,05 g	8 kg	CDS 8K0.05	460,-	86	1		■		■		■		□	
0,05 g	15 kg	CDS 15K0.05	490,-	86	1		■		■		■		□	
0,05 g	16 kg	CKE 16K0.05	440,-	84	1		■		■		■		□	■
0,1 g	6 kg	CPB 6K0.1N	205,-	82	1		■		■		■	■	□	
0,1 g	6 kg	CFS 6K0.1	270,-	83	1		■	■	■	■	■	■	□	
0,1 g	16 kg	CKE 16K0.1	400,-	84	1		■		■		■		□	■
0,1 g	16 kg	CDS 16K0.1	460,-	86	1		■		■		■		□	
0,1 g	30 kg	CDS 30K0.1	560,-	86	1		■		■		■		□	
0,1 g	30 kg	CDS 30K0.1L	590,-	86	1		■		■		■		□	
0,1 g	30 kg	CCS 30K0.1	580,-	87	2 *		■	■	■	■	■	■	□	
0,1 g	36 kg	CKE 36K0.1	450,-	84	1		■		■		■		□	■
0,1 g	60 kg	CCS 60K0.1	580,-	87	2 *		■	■	■	■	■	■	□	
0,1 g	60 kg	CCS 60K0.1L	610,-	87	2 *		■	■	■	■	■	■	□	
0,1 g	150 kg	CCS 150K0.1	610,-	87	2 *		■	■	■	■	■	■	□	
0,1 g	150 kg	CCS 150K0.1L	780,-	87	2 *		■	■	■	■	■	■	□	
0,1 g	300 kg	CCS 300K0.1	780,-	87	2 *		■	■	■	■	■	■	□	
0,2 g	3 kg	CXB 3K0.2	210,-	81	1		■				■		■	
0,2 g	15 kg	CPB 15K0.2N	205,-	82	1		■		■		■	■	□	
0,2 g	15 kg	CFS 15K0.2	270,-	83	1		■	■	■	■	■	■	□	
0,2 g	36 kg	CDS 36K0.2L	590,-	86	1		■		■		■		□	
0,2 g	60 kg	CDS 60K0.2	660,-	86	1		■		■		■		□	
0,2 g	65 kg	CKE 65K0.2	450,-	84	1		■		■		■		□	■
0,5 g	6 kg	CXB 6K0.5	210,-	81	1		■				■		■	
0,5 g	30 kg	CPB 30K0.5N	205,-	82	1		■		■		■	■	□	
0,5 g	30 kg	CFS 30K0.5	270,-	83	1		■	■	■	■	■	■	□	
0,5 g	65 kg	CKE 65K0.5	420,-	84	1		■		■		■		□	■
0,5 g	100 kg	CDS 100K0.5	660,-	86	1		■		■		■		□	
1 g	3 kg	CXB 3K1M	230,-	81	1	■	■		■		■		■	
1 g	15 kg	CXB 15K1	210,-	81	1		■				■		■	
1 g	50 kg	CFS 50K-3	290,-	83	1		■	■	■	■	■	■	□	
1/2 g	3/6 kg	CPB 6K1DM	205,-	82	1	■	■		■		■	■	□	
2 g	6 kg	CXB 6K2M	230,-	81	1	■	■				■		■	
2 g	30 kg	CXB 30K2	210,-	81	1		■				■		■	
2/5 g	6/15 kg	CPB 15K2DM	205,-	82	1	■	■		■		■	■	□	
5 g	15 kg	CXB 15K5M	230,-	81	1	■	■				■		■	
5/10 g	15/30 kg	CPB 30K5DM	205,-	82	1	■	■		■		■	■	□	
10 g	30 kg	CXB 30K10M	230,-	81	1	■	■				■		■	

08

Counting scale KERN CXB



Entry level model in professional counting, also with EC type approval [M], counting resolution of 30,000 points

Features

- **Precise counting:** The automatic optimisation of reference weight gradually improves the average value of the piece weight
- **Programmable using numerical key pad:**
 - known reference weight
 - required reference quantity
- **Three displays** for
 - Weight (verifiable)
 - Reference weight
 - Total weight
- **Audible Fill-to-target:** target quantity or target weight can be programmed. When the target value is reached, a signal will sound

- **Counting results memory:** adds up all individual counting operations, result is shown in total weight and total pieces
- **Energy management:** Backlight turns off after 5 sec
- **Soil-resistant construction** with water channels at the edge of the housing and sealing rings over the upper housing inlets
- **PRE-TARE function** for manual subtraction of a known container weight, which can be saved

Technical data

- Large backlit LCD displays, digit height 18 mm
- Dimensions of weighing plate (stainless steel) WxD 300x225 mm
- Dimensions housing WxDxH 300x330x110 mm
- Rechargeable battery pack internal, standard, operating time approx. 200 h without backlight, charging time approx. 8 h, charge condition indicator on display
- Net weight approx. 4 kg
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing, standard, can be reordered, KERN CXB-A01, € 25,-

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Min. piece weight [PW min] g/piece	Counting resolution Points	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
								MIII KERN	€	DKD KERN	€
KERN CXB 3K0.2	3	0,2	-	-	0,1	30.000	210,-	-	-	963-127	65,-
KERN CXB 6K0.5	6	0,5	-	-	0,2	30.000	210,-	-	-	963-128	80,-
KERN CXB 15K1	15	1	-	-	0,5	30.000	210,-	-	-	963-128	80,-
KERN CXB 30K2	30	2	-	-	1	30.000	210,-	-	-	963-128	80,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
KERN CXB 3K1M	3	1	1	20	0,1	30.000	230,-	965-227	50,-	963-127	65,-
KERN CXB 6K2M	6	2	2	40	0,2	30.000	230,-	965-228	50,-	963-128	80,-
KERN CXB 15K5M	15	5	5	100	0,5	30.000	230,-	965-228	50,-	963-128	80,-
KERN CXB 30K10M	30	10	10	200	1	30.000	230,-	965-228	50,-	963-128	80,-

Counting scale KERN CPB



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

Features

- **Precise counting:** The automatic optimisation of reference weight gradually improves the average value of the piece weight
- **Programmable using numerical key pad:**
 - required reference quantity
 - known reference weight
- **Target piece input** check-weighing with an audible signal
- **Counting results memory:** adds up all individual counting operations, result is shown in total weight and total pieces
- **Audible Fill-to-target:** target quantity or target weight can be programmed. When the target value is reached, a signal will sound

- **High mobility:** thanks to battery operation (optional), compact, flat construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department,...)

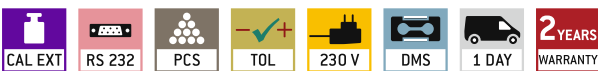
Technical data

- Large backlit LCD displays, digit height 20 mm
- Dimensions of weighing plate (stainless steel) WxDxH 294x225 mm
- Overall dimensions WxDxH 320x350x125 mm
- Net weight approx. 3,9 kg
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Protective working cover,** KERN CFS-A02, € 25,-
- **Rechargeable battery pack internal,** operating time up to 90 h without backlight, charging time approx. 14 h, can be reordered, KERN GAB-A04, € 40,-
- **Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03, € 250,-
- **2nd data interface,** Y cable for parallel connection of two terminal devices to the RS 232 interface of the balance, e.g. of a printer, signal lamp etc. KERN CFS-A04, € 35,-
- **Suitable printers** see page 130

STANDARD



OPTION



FACTORY



only CPB-DM

Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Min. piece weight [PW min] g/piece	Price excl. of VAT ex works €	Options			
							Verification		DKD Calibr. Certificate	
							M KERN	€	DKD KERN	€
KERN CPB 6K0.1N	6	0,1	-	-	0,1	205,-	-	-	963-128	80,-
KERN CPB 15K0.2N	15	0,2	-	-	0,25	205,-	-	-	963-128	80,-
KERN CPB 30K0.5N	30	0,5	-	-	0,5	205,-	-	-	963-128	80,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.										
Dual-range balance (D=Dual): switches from readout d1 to readout d2 automatically										
KERN CPB 6K1DM	3 6	1 2	1 2	20	0,1	205,-	965-228	50,-	963-128	80,-
KERN CPB 15K2DM	6 15	2 5	2 5	40	0,25	205,-	965-228	50,-	963-128	80,-
KERN CPB 30K5DM	15 30	5 10	5 10	100	0,5	205,-	965-228	50,-	963-128	80,-

Counting scale KERN CFS



Professional counting scale with 100 item memories and optional 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
- **Weighing with tolerance range** (checkweighing), ideal for portion division, dispensing, grading, only in weighing and counting mode
- **Programmable using numerical key pad:**
 - required reference quantity
 - known reference weight
- **Fill-to-target function:** Programmable target quantity or target weight. An acoustic and visual signal will be displayed when the target value is reached
- **Precise counting:** The automatic optimisation of reference weight gradually improves the average value of the piece weight

- **Interface for second balance** to construct a high-resolution counting system, e.g. with weighing bridges KFP V20 (see page 114)

Technical data

- Large backlit LCD displays, digit height 20 mm
- Dimensions of weighing plate WxD
 - A 294x225 mm
 - B 240x370 mm
- Dimensions housing WxDxH
 - A 320x350x125 mm
 - B 370x360x125 mm
- Net weight approx. 3,8 kg
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Signal lamp** for visual support of weighing with tolerance range, WxDxH 100x180x300 mm, KERN CFS-A03, € 250,-
- **2nd data interface, Y cable** for parallel connection of two terminal devices to the RS 232 interface of the balance, e.g. of a printer, signal lamp etc. KERN CFS-A04, € 35,-
- **Rechargeable battery pack internal**, operating time up to 70 h without backlight, charging time approx. 14 h, can be reordered, only for models with weighing plate sizes **A**, KERN GAB-A04, € 40,-
- **Protective working cover** over keyboard and housing standard, can be reordered, only for models with weighing plate sizes **A**, KERN CFS-A02, € 25,-
- **Suitable printers** see page 130

STANDARD



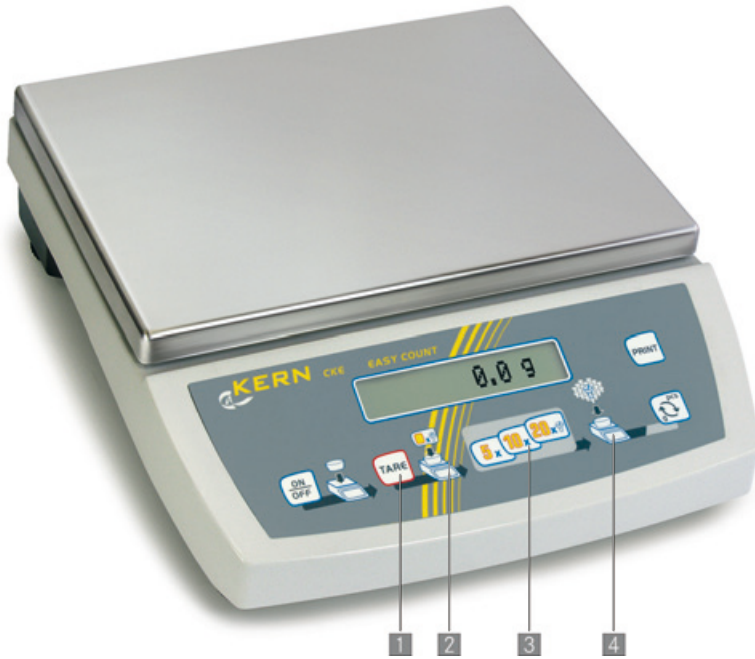
OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Reproduzierbarkeit g	Linearity g	Min. piece weight [PW min] g/piece	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
								DKD KERN	€
CFS 3K-5	3	0,01	0,02	± 0,04	0,05	A	290,-	963-127	65,-
CFS 6K0.1	6	0,1	0,1	± 0,2	0,1	A	270,-	963-128	80,-
CFS 15K0.2	15	0,2	0,2	± 0,4	0,2	A	270,-	963-128	80,-
CFS 30K0.5	30	0,5	0,5	± 1	0,5	A	270,-	963-128	80,-
CFS 50K-3	50	1	1	± 2	1	B	290,-	963-128	80,-

■ New model

Counting scale KERN CKE



Easy to use, self-explanatory counting balance with laboratory accuracy, counting resolution up to 361,000 points

Features

• **Self-explanatory graphic control panel**, even without operating instructions, the counting process can be understood immediately.

- no learning time = reduces costs
- ideal for untrained users
- visualised process means that operating errors are avoided

• The 4 steps are carried out from left to right:

- 1 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 on the display

- **Precise counting:** The automatic optimisation of reference weight gradually improves the average value of the piece weight
- **Two balances in one:** Switching from counting mode to weighing mode at the touch of a button

Technical data

- Large backlit LCD display
 - A digit height 9 mm
 - B digit height 18 mm
- Dimensions of weighing plate (stainless steel) WxD
 - A 150x170 mm
 - B 340x240 mm, see larger picture
- Overall dimensions WxDxH
 - A 167x250x85 mm
 - B 350x390x120 mm

- Optional battery operation for models with weighing plate sizes B, batteries (6 x 1.5 V Size C) not standard, operating time approx. 70 h
- Net weight for models with weighing plate sizes
 - A approx. 1,4 kg
 - B approx. 6,5 kg
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing standard, can be reordered, for models with weighing plate sizes
 - A KERN PCB-A05, € 25,-
 - B KERN FKB-A02, € 25,-
- **Rechargeable battery pack external**, operating time up to 25 h, charging time approx. 10 h, KERN KS-A01, € 180,-
- **Rechargeable battery pack internal** only for models with weighing plate sizes A, operating time approx. 25 h, charging time approx. 10 h, can be reordered, KERN KB-A01N, € 45,-
- **Suitable printers** see page 130

STANDARD



OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Min. piece weight [PW min] g/piece	Counting resolution Points	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
							DKD KERN	€
KERN CKE 2000-2	2	0,01	0,01	201.000	A	350,-	963-127	65,-
KERN CKE 3600-2	3,6	0,01	0,01	361.000	A	370,-	963-127	65,-
KERN CKE 6K0.02	6	0,02	0,02	305.000	B	440,-	963-128	80,-
KERN CKE 8K0.05	8	0,05	0,05	162.000	B	400,-	963-128	80,-
KERN CKE 16K0.05	16	0,05	0,05	322.000	B	440,-	963-128	80,-
KERN CKE 16K0.1	16	0,1	0,1	161.000	B	400,-	963-128	80,-
KERN CKE 36K0.1	36	0,1	0,1	361.000	B	450,-	963-128	80,-
KERN CKE 65K0.2	65	0,2	0,2	325.500	B	450,-	963-129	95,-
KERN CKE 65K0.5	65	0,5	0,5	130.000	B	420,-	963-129	95,-

Counting scale KERN IFS



Industrial counting scale with convenient keypad for easy data entry, now with counting resolution to 60,000 points

Features

- **Industrial quality:** because of its stable construction and robust design, it is ideal for continuous use in industrial applications
- **Benchtop stand incl. wall mount** for display device as standard
- **Precise counting:** The manual optimisation of reference weight gradually improves the average value of the piece weight
- **Level indicator and foot screws** to level the balance precisely, fitted as standard, to give the most accurate weighing results
- **Totalizing** of counting operations

Technical data

- Backlit LCD displays, digit height 16,5 mm
- Dimensions of weighing plate (stainless steel) WxDxH
 - A** 300x240x128 mm
 - B** 500x400x137 mm
 - C** 650x500x142 mm, see larger picture
- Dimensions of display device WxDxH 260x150x65 mm
- Cable length of display device approx. 2,5 m
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **1 Stand** to elevate display device, height of stand approx. 330 mm, KERN IFB-A01, € 40,- height of stand approx. 600 mm, for models with weighing plate sizes **B** and **C**, KERN IFB-A02, € 40,-
- **Protective working cover** standard, can be reordered, KERN KFB-A02, € 30,-
- **Rechargeable battery pack internal**, operating time up to 30 h, charging time approx. 12 h, can be reordered, KERN KFS-A01, € 35,-
- **Suitable printers** see page 130

STANDARD



only with printer

OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Min. piece weight [PW min] g/piece	Counting resolution Points	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
								DKD KERN	€
KERN IFS 10K-4	6 15	0,1 0,2	0,25	60.000	6,5	A	300,-	963-128	80,-
IFS 100K-3	75 150	1 2	2,5	60.000	14	B	490,-	963-129	95,-
IFS 100K-3L	75 150	1 2	2,5	60.000	24	C	590,-	963-129	95,-
IFS 300K-3	150 300	2 5	5	60.000	24	C	590,-	963-129	95,-

Counting scale KERN CDS



Easy to use industrial counting scale for heavy loads, counting resolution up to 300,000 points

Features

- **Self-explanatory graphic control panel,** Even without operating instructions, the counting process can be understood immediately
 - No learning time = reduces costs
 - Ideal for untrained users
 - Visualised process means that operating errors are avoided
- **Precise counting:** The automatic optimisation of reference weight gradually improves the average value of the piece weight

Technical data

- Backlit LCDdisplay, digit height 18 mm
- Dimensions of weighing plate (stainless steel) WxDxH
 - A** 308x318x75 mm
 - B** 450x350x115 mm
- Dimensions of display device WxDxH 225x115x60 mm
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over the display device, standard, can be reordered, KERN DE-A12, € 30,-

- **Wall mount** for display device, KERN DS-A02, € 30,-
- **Mount** to fasten the display device to the platform, KERN DE-A11N, € 30,-
- **Stand** to elevate display device, height of stand approx. 450 mm, KERN DE-A10, € 70,-
- **Rechargeable battery pack external,** operating time up to 15 h, charging time approx. 10 h, KERN KS-A01, € 180,-
- **Rechargeable battery pack internal,** operating time up to 15 h, charging time approx. 10 h, can be reordered, KERN KB-A01N, € 45,-
- **Suitable printers** see page 130

STANDARD



OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Min. piece weight [PW min] g/piece	Counting resolution Points	Net weight approx. kg	Cable Length approx. m	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
									DKD KERN	€
KERN CDS 8K0.05	8	0,05	0,05	162.000	7,5	2	A	460,-	963-128	80,-
CDS 15K0.05	15	0,05	0,05	302.000	7,5	2	A	490,-	963-128	80,-
CDS 16K0.1	16	0,1	0,1	161.000	7,5	2	A	460,-	963-128	80,-
CDS 30K0.1	30	0,1	0,1	301.000	7,5	2	A	560,-	963-128	80,-
CDS 30K0.1L	30	0,1	0,1	301.000	9,5	0,6	B	590,-	963-128	80,-
CDS 36K0.2L	36	0,2	0,2	180.500	9,5	0,6	B	590,-	963-128	80,-
CDS 60K0.2	60	0,2	0,2	300.500	9,5	0,6	B	660,-	963-129	95,-
CDS 100K0.5	100	0,5	0,5	202.000	9,5	0,6	B	660,-	963-129	95,-



Information on other high-capacity bulk balances, such as, for example, pallet scales, drive-through scales or floor scales is available on request, for information on other counting systems with the KERN CFS reference balance (d = 0.1 g), please refer to the website.

Counting the smallest parts in the largest quantities, counting resolution up to 6 Mio. points

Features

- With this highly-accurate KERN CCS counting system you can replace a large spectrum of individual counting scales

Reference scale KERN CFS:

This professional KERN CFS counting scale, which can also be used as a stand-alone scale, meets even the highest demands for accuracy, weighing range and volume of items, by connecting it to a high-capacity weighing bridge

- **Programmable using numerical key pad:**
 - required reference quantity
 - known reference weight
- **Memory (PLU) for 100 items** with additional text
- **Fill-to-target function:** Programmable target weight. An acoustic and visual signal will be displayed when the target value is reached

- **Precise counting:** The automatic optimisation of reference weight gradually improves the average value of the piece weight
- Details page 83

Quantity scale KERN KFP: The high-accuracy quantity counting takes place on the weighing platform (= weighing bridge) KERN KFP

- **Stainless steel platform,** Steel substructure lacquered
- **Aluminium singlepoint load cell** (1 x 3000 e), IP65 protection
- Details page 114

Technical data

KFP:

- Dimensions of weighing plate (stainless steel) WxDxH
 - A 400x300x128 mm B 500x400x137 mm
 - C 650x500x142 mm
- Connection cable approx. 1,5 m

CFS:

- Large backlit LCD displays, digit height 20 mm
- Overall dimensions WxDxH 320x350x125 mm
- Dimensions of weighing plate (stainless steel) WxD 294x225 mm
- Net weight approx. 3,8 kg

Accessories

- **Reference scale** also available separately, details see page 80, KERN CFS 6K0.1, € 270,-
- **Rechargeable battery pack internal,** operating time approx. 60 h, charging time approx. 14 h, KERN GAB-A04, € 40,-
- **Signal lamp** for visual support of weighing with tolerance range, WxDxH 100x180x300 mm, KERN CFS-A03, € 250,-
- **2nd data interface,** Y cable for parallel connection of two terminal devices to the RS 232 interface of the balance, e.g. of a printer, signal lamp etc. KERN CFS-A04, € 35,-
- **Suitable printers** see page 130

STANDARD



OPTION



Model	Quantity scale	Weighing range [Max] kg	Read-out [d] g	Weighing plate	Reference scale	Weighing range [Max] kg	Read-out [d] g	Min. piece weight [PW min] g/piece	Price excl. of VAT ex works €	Option	
										DKD KERN	Certificate €
CCS 30K0.01	KFP 30V20M	30	10	A	CFS 3K-5	3	0,01	0,05	580,-	962-128-128	160,-
CCS 30K0.1	KFP 30V20M	30	10	A	CFS 6K0.1	6	0,1	0,1	520,-	962-129-128	175,-
CCS 60K0.01	KFP 60V20M	60	20	A	CFS 3K-5	3	0,01	0,05	580,-	962-129-128	175,-
CCS 60K0.01L	KFP 60V20LM	60	20	B	CFS 3K-5	3	0,01	0,05	610,-	962-129-128	175,-
CCS 60K0.1L	KFP 60V20LM	60	20	B	CFS 6K0.1	6	0,1	0,1	560,-	962-129-128	175,-
CCS 150K0.01	KFP 150V20M	150	50	B	CFS 3K-5	3	0,01	0,05	610,-	962-129-128	175,-
CCS 150K0.01L	KFP 150V20LM	150	50	C	CFS 3K-5	3	0,01	0,05	780,-	962-129-128	175,-
CCS 150K0.1	KFP 150V20M	150	50	B	CFS 6K0.1	6	0,1	0,1	560,-	962-129-128	175,-
CCS 300K0.01	KFP 300V20M	300	100	C	CFS 3K-5	3	0,01	0,05	780,-	962-129-128	175,-

9 Platform scales

KERN Model		Page
EOL	All-round platform scale with the best price performance ratio	91
EOB	The bestseller in parcel- and veterinary scales, also with XL platform, now with higher resolution	92
EOS-F	No need for a cable with KERN! Wireless communication between the platform and display device for maximum flexibility	93
DE-D	Multi functional scale with IP65 display device	94/95
IFS-D	The industrial scale for professionals	96
IFB	Robust platform scale with EC Type approval [M]	97
DS	Industrial scale with laboratory accuracy, also with EC Type approval [M]	98
ILS	High-resolution industrial scale for the most precise results up to 50 kg, also with EC type approval [M]	99
IKT	Touchscreen platform scale with enormous range of functions, also with EC Type approval [M]	100/101



Platform scales - the all-rounder in industrial scales

In the KERN range there are portable, affordable entry level models for weighing post or parcels, high-quality models with a high → *IP protection* and → *verification* for trade applications, up to top level models with touchscreen technology for complex recipe or checkweighing applications with relay control - for each application we have the right platform scale.

The benefits of platform scales are clear for all to see:

- Weighing range from 3 kg - 300 kg
- Robust platform construction for the harshest industrial use
- Versatile, available with column
- High overload protection
- Stainless steel weighing plate, shock proof and easy to clean
- Display device can be positioned separately, e.g. wall-mounted, on a column or next to the platform. This guarantees that you always have a clear view of the display even with bulky items on the scale
- Large selection of platform sizes.

In order to fulfil the diverse requirements of our industrial customers, KERN platform scales have a large number of practical functions. From counting and recipe functions via → *data interfaces* to connecting balances in a network or connecting with a PC or printer through right to useful battery operation for mobile use. The „Dynamic Weighing“ function is particularly useful for industrial weighing and guarantees stable results even when the location is unstable or when weighing animals – a true all-rounder.

The newest development for an even greater level of ease of use is the wireless communication between the platform and display device, giving the highest level of flexibility – you can weigh at the location of installation and read the weight up to 20 m away.

Particularly practical: the touchless tare function means that, by using movement sensors, you can tare without having to touch the balance which is useful when working with gloves or dirty hands, see page 93.

→ See the glossary on page 158/159



Your KERN product specialist will be happy to help:

Stephan Ade
Product specialist platform scales, floor, pallet and drive-through scales

Tel. +49-(0) 74 33-99 33-121
 Fax +49-(0) 74 33-99 33-29121
 ade@kern-sohn.com













Quick-Finder

■ = Standard □ = Option

Read-out d	Weighing range Max	Model KERN	Price € excl. VAT ex works	Page	DAYS ready for shipping		CAL INT	CAL EXT	MEMORY	RS 232	PCS	TOL	MOVE	IP	ACCU	BATT	For an explanation of the symbols, see the flap of the envelope	
0,01 g	3 kg	DS 3K0.01S	640,-	98	1			■		■	■						□	
0,01 g	3 kg	IKT 3K0.01S	920,-	100	1			■	■	■	■	■					□	
0,05 g	5 kg	DS 5K0.05S	560,-	98	1			■		■	■						□	
0,05 g	8 kg	DS 8K0.05	550,-	98	1			■		■	■						□	
0,05 g	8 kg	IKT 8K0.05	850,-	100	1			■	■	■	■	■					□	
0,1 g	6 kg	IKT 6K0.1	830,-	100	1			■	■	■	■	■					□	
0,1 g	10 kg	DS 10K0.1S	530,-	98	1			■		■	■						□	
0,1 g	10 kg	IKT 10K0.1S	850,-	100	1			■	■	■	■	■					□	
0,1 g	16 kg	DS 16K0.1	550,-	98	1			■		■	■						□	
0,1 g	16 kg	IKT 16K0.1	850,-	100	1			■	■	■	■	■					□	
0,1 g	20 kg	DS 20K0.1	580,-	98	1			■		■	■						□	
0,1 g	25 kg	ILJ 25K-4M	1970,-	99	1	■	■				■	■						
0,1 g	30 kg	DS 30K0.1	610,-	98	1			■		■	■						□	
0,1 g	30 kg	DS 30K0.1L	700,-	98	1			■		■	■						□	
0,1 g	30 kg	ILS 30K-4	1700,-	99	1			■			■	■						
0,1 g	30 kg	IKT 30K0.1	850,-	100	1			■	■	■	■	■					□	
0,1 g	30 kg	IKT 30K0.1L	1150,-	100	1			■	■	■	■	■					□	
0,1 g	50 kg	ILS 50K-4	2250,-	99	1			■			■	■						
0,2 g	12 kg	IKT 12K0.2	830,-	100	1			■	■	■	■	■					□	
0,2 g	36 kg	DS 36K0.2	550,-	98	1			■		■	■						□	
0,2 g	36 kg	DS 36K0.2L	660,-	98	1			■		■	■						□	
0,2 g	36 kg	IKT 36K0.2	850,-	100	1			■	■	■	■	■					□	
0,2 g	36 kg	IKT 36K0.2L	1050,-	100	1			■	■	■	■	■					□	
0,2 g	60 kg	DS 60K0.2	740,-	98	1			■		■	■						□	
0,2 g	60 kg	IKT 60K0.2L	1120,-	100	1			■	■	■	■	■					□	
0,2/0,5 g	6/15 kg	DE 15K0.2D	305,-	94	1			■		■	■			■		□	□	
0,2/0,5 g	6/15 kg	IFS 15K0.2D	280,-	96	1			■		■	■	■					□	
0,2/0,5 g	15/30 kg	IFS 30K0.2DL	380,-	96	1			■		■	■	■					□	
0,5 g	6 kg	DE 6K0.5A	199,-	94	1			■		■	■			■		□	□	
0,5 g	30 kg	IKT 30K0.5	830,-	100	1			■	■	■	■	■					□	
0,5 g	65 kg	DS 65K0.5	700,-	98	1			■		■	■						□	
0,5 g	65 kg	IKT 65K0.5L	1050,-	101	1			■	■	■	■	■					□	
0,5 g	100 kg	DS 100K0.5	740,-	98	1			■		■	■						□	
0,5 g	100 kg	IKT 100K0.5L	1150,-	100	1			■	■	■	■	■					□	
0,5/1 g	15/30 kg	IFS 60K0.5D	390,-	96	1			■		■	■	■					□	
0,5/1 g	15/35 kg	DE 35K0.5D	305,-	94	1			■		■	■			■		□	□	
0,5/1 g	30/60 kg	IFS 60K0.5DL	460,-	96	1			■		■	■	■					□	
1 g	6 kg	IKT 6K1M	990,-	100	1	■		■	■	■	■	■					□	
1 g	12 kg	DE 12K1A	199,-	94	1			■		■	■			■		□	□	
1 g	60 kg	IKT 60K1L	1050,-	100	1			■	■	■	■	■					□	
1 g	65 kg	DS 65K1M	790,-	98	1	■		■		■	■						□	
1 g	150 kg	DS 150K1	740,-	98	1			■		■	■						□	
1 g	150 kg	IKT 150K1L	1150,-	100	1			■	■	■	■	■					□	
1/2 g	3/6 kg	DE 6K1D	175,-	94	1			■		■	■			■		□	□	
1/2 g	3/6 kg	IFB 6K1DM	290,-	97	1	■		■		■	■	■					□	
1/2 g	30/60 kg	DE 60K1D	305,-	94	1			■		■	■			■		□	□	
1/2 g	30/60 kg	DE 60K1DL	370,-	94	1			■		■	■			■		□	□	
1/2 g	60/120 kg	IFS 120K1D	470,-	96	1			■		■	■	■					□	
2 g	12 kg	IKT 12K2M	990,-	100	1	■		■	■	■	■	■					□	
2 g	24 kg	DE 24K2A	199,-	94	1			■		■	■			■		□	□	
2 g	120 kg	IKT 120K2L	1050,-	100	1			■	■	■	■	■					□	
2 g	150 kg	IKT 150K2XL	1200,-	100	1			■	■	■	■	■					□	
2/5 g	6/15 kg	DE 15K2D	175,-	94	1			■		■	■			■		□	□	

Quick-Finder

■ = Standard □ = Option

Read-out d	Weighing range Max	Model KERN	Price € excl. VAT ex works	Page	 DAYS ready for shipping	          											
						For an explanation of the symbols, see the flap of the envelope											
2/5 g	6/15 kg	IFB 15K2DM	290,-	97	1	■		■		■		■		■		■	
2/5 g	6/15 kg	IFB 15K2DLM	350,-	97	1	■		■		■		■		■		■	
2/5 g	60/150 kg	DE 150K2D	305,-	94	1			■		■				■		■	
2/5 g	60/150 kg	DE 150K2DL	370,-	94	1			■		■				■		■	
2/5 g	60/150 kg	IFS 150K2DL	570,-	96	1			■		■				■		■	
5 g	15 kg	EOB 15K5	130,-	92	1			■									■
5 g	30 kg	IKT 30K5M	1010,-	100	1	■		■	■	■						■	
5 g	60 kg	DE 60K5A	199,-	94	1			■		■				■		■	
5 g	300 kg	IKT 300K5XL	1200,-	100	1			■	■	■						■	
5/10 g	15/30 kg	IFB 30K5DM	350,-	97	1	■		■		■				■		■	
5/10 g	15/35 kg	DE 35K5D	175,-	94	1			■		■				■		■	
5/10 g	15/35 kg	DE 35K5DL	270,-	94	1			■		■				■		■	
5/10 g	150/300 kg	DE 300K5DL	370,-	94	1			■		■				■		■	
5/10 g	150/300 kg	IFS 300K5D	570,-	96	1			■		■				■		■	
10 g	15 kg	EOE 15K10	115,-	91	1			■									■
10 g	35 kg	EOB 35K10	130,-	92	1			■									■
10 g	60 kg	IKT 60K10LM	1250,-	100	1	■		■	■	■						■	
10 g	120 kg	DE 120K10A	199,-	94	1			■		■				■		■	
10/20 g	30/60 kg	DE 60K10D	175,-	94	1			■		■				■		■	
10/20 g	30/60 kg	DE 60K10DL	270,-	94	1			■		■				■		■	
10/20 g	30/60 kg	IFB 60K10DM	350,-	97	1	■		■		■				■		■	
10/20 g	30/60 kg	IFB 60K10DLM	430,-	97	1	■		■		■				■		■	
20 g	35 kg	EOE 35K20	115,-	91	1			■									■
20 g	60 kg	EOB 60K20	130,-	92	1			■									■
20 g	60 kg	EOB 60K20L	320,-	92	1			■									■
20 g	120 kg	IKT 120K20LM	1250,-	100	1	■		■	■	■						■	
20/50 g	60/150 kg	DE 150K20D	175,-	94	1			■		■				■		■	
20/50 g	60/150 kg	DE 150K20DL	270,-	94	1			■		■				■		■	
20/50 g	60/150 kg	DE 150K20DXL	370,-	94	1			■		■				■		■	
20/50 g	60/150 kg	IFB 150K20DM	430,-	97	1	■		■		■				■		■	
20/50 g	60/150 kg	IFB 150K20DLM	570,-	97	1	■		■		■				■		■	
50 g	60 kg	EOE 60K50	115,-	91	1			■									■
50 g	150 kg	EOE 150K50L	235,-	91	1			■									■
50 g	150 kg	EOE 150K50XL	290,-	91	1			■									■
50 g	150 kg	EOB 150K50	130,-	92	1			■									■
50 g	150 kg	EOB 150K50L	320,-	92	1			■									■
50 g	150 kg	EOB 150K50XL	350,-	92	1			■									■
50 g	150 kg	EOS 150K50XL	360,-	92	1			■									■
50 g	150 kg	EOS 150K50XLF	430,-	93	1			■									■
50/100 g	150/300 kg	DE 300K50D	270,-	94	1			■		■				■		■	
50/100 g	150/300 kg	DE 300K50DL	370,-	94	1			■		■				■		■	
50/100 g	150/300 kg	IFB 300K50DM	570,-	97	1	■		■		■				■		■	
100 g	60 kg	EOL 60K100	69,-	91	1			■									■
100 g	150 kg	EOE 150K100	115,-	91	1			■									■
100 g	300 kg	EOE 300K100L	235,-	91	1			■									■
100 g	300 kg	EOE 300K100XL	290,-	91	1			■									■
100 g	300 kg	EOB 300K100A	140,-	92	1			■									■
100 g	300 kg	EOB 300K100L	320,-	92	1			■									■
100 g	300 kg	EOB 300K100XL	350,-	92	1			■									■
100 g	300 kg	EOS 300K100XL	360,-	92	1			■									■
100 g	300 kg	EOS 300K100XLF	430,-	93	1			■									■
200 g	120 kg	EOL 120K200	69,-	91	1			■									■

09



KERN EOL

KERN EOE

Entry level platform scales with the best price-performance ratio

Features

Technical data

Accessories

- **Simple and convenient 4-key operation**

- Large LCD display, digit height 25 mm
- Weighing plate steel lacquered
- Optional battery operation

- EOL:**
- **Mains adapter external** not included, can be reordered, KERN 440-902, € 25,-

- EOL:**
- **Particularly flat design**

- EOL:**
- Dimensions of display device WxDxH 160x90x32 mm
 - Ready for use: 9 V Block included, operating time approx. 60 h
 - Permissible ambient temperature 5 °C / 35 °C

- EOE:**
- **Ascending ramp** incl. pair of base plates for models with weighing plate sizes WxD 505x505 mm, not included. WxDxH 505x507x87 mm, KERN EOE-A02, € 120,-
 - **Non-slip rubber mat**, WxD 945x505 mm, KERN EOE-A01, € 40,-
 - **Sturdy transport case**, for models with weighing plate sizes ≤ 315x305x65 mm, details see page 132, KERN MPS-A07, € 100,-

- EOE:**
- **Wall mount** for display device standard
 - **Vibration-free weighing:** at the push of a button, a stable average weight is given when the environmental conditions are unstable or when weighing animals

- EOE:**
- Dimensions of display device WxDxH 210x110x45 mm
 - Permissible ambient temperature 10 °C / 35 °C

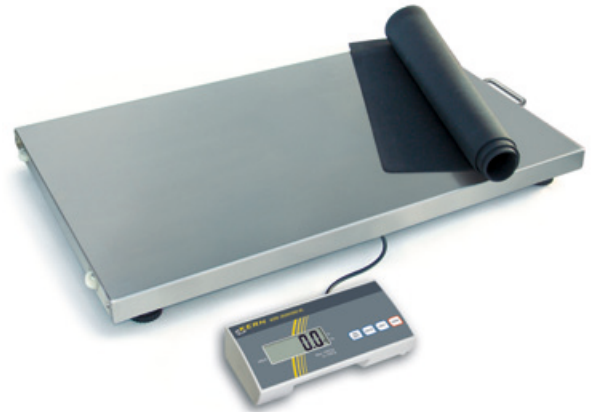
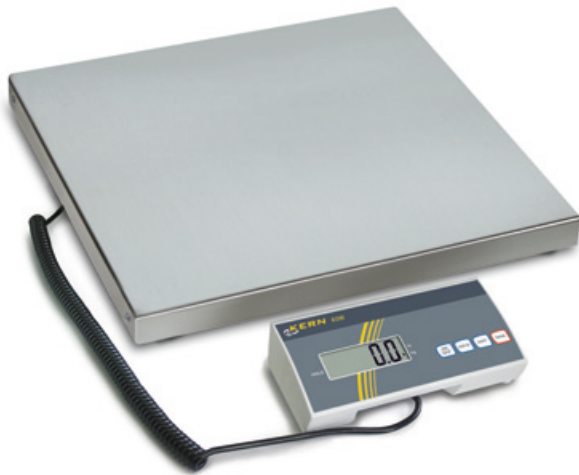
STANDARD

OPTION

Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Net weight approx. kg	Cable length approx. m	Weighing plate mm	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
									DKD KERN	€
KERN										
EOL 60K100 *	60	100	100	± 200	1,4	2,6	293x270x35	69,-	963-129	95,-
EOL 120K200 *	120	200	200	± 400	1,4	2,6	293x270x35	69,-	963-129	95,-
EOE										
EOE 15K10	15	10	10	± 20	4	1,8	315x305x65	115,-	963-128	80,-
EOE 35K20	35	20	20	± 40	4	1,8	315x305x65	115,-	963-128	80,-
EOE 60K50	60	50	50	± 100	4	1,8	315x305x65	115,-	963-129	95,-
EOE 150K100	150	100	100	± 200	4	1,8	315x305x65	115,-	963-129	95,-
EOE 150K50L	150	50	50	± 100	12,5	2,7	505x505x65	235,-	963-129	95,-
EOE 150K50XL	150	50	50	± 100	19,5	2,7	945x505x65	290,-	963-129	95,-
EOE 300K100L	300	100	100	± 200	12,5	2,7	505x505x65	235,-	963-129	95,-
EOE 300K100XL	300	100	100	± 200	19,5	2,7	945x505x65	290,-	963-129	95,-

! * ONLY WHILE STOCKS LAST

Platform scales KERN EOB · EOS



KERN EOB

KERN EOS

The bestseller in parcel- and veterinary scales, also with XL platform, now with higher resolution

Features

- **Simple and convenient 4-key operation**
- **Wall mount** for display device, standard
- **Vibration-free weighing:** at the push of a button, a stable average weight is given when the environmental conditions are unstable or when weighing animals

EOS:

- The scale can be easily transported using 2 rollers and a handle and does not require much storage space

Technical data

- Large LCD display, digit height 25 mm
- Dimensions of display device WxDxH 210x110x45 mm

- Cable length of display device approx. 1,8 m
- Optional battery operation, 6 x 1.5 V AA not included, operating time approx. 60 h
- Permissible ambient temperature 10 °C / 35 °C

EOB:

Dimensions of weighing plate WxDxH

- A 315x305x65 mm
- B 550x550x65 mm, see larger picture
- C 945x505x65 mm

EOS:

- Dimensions of weighing plate (stainless steel) WxDxH
- D 900x550x60 mm

Accessories

- **1 Stand** to elevate display device, height of stand approx. 950 mm, KERN MWS-A01, € 140,-

EOB:

- **Non-slip rubber mat**, only for models with weighing plate sizes C, KERN EOE-A01, € 40,-
- **2 Stand** to elevate display device, height of stand approx. 450 mm, only for models with weighing plate sizes A, KERN EOB-A01N, € 55,-

EOS:

- **Non-slip rubber mat** standard, can be reordered, KERN EOS-A01, € 35,-

STANDARD



STANDARD

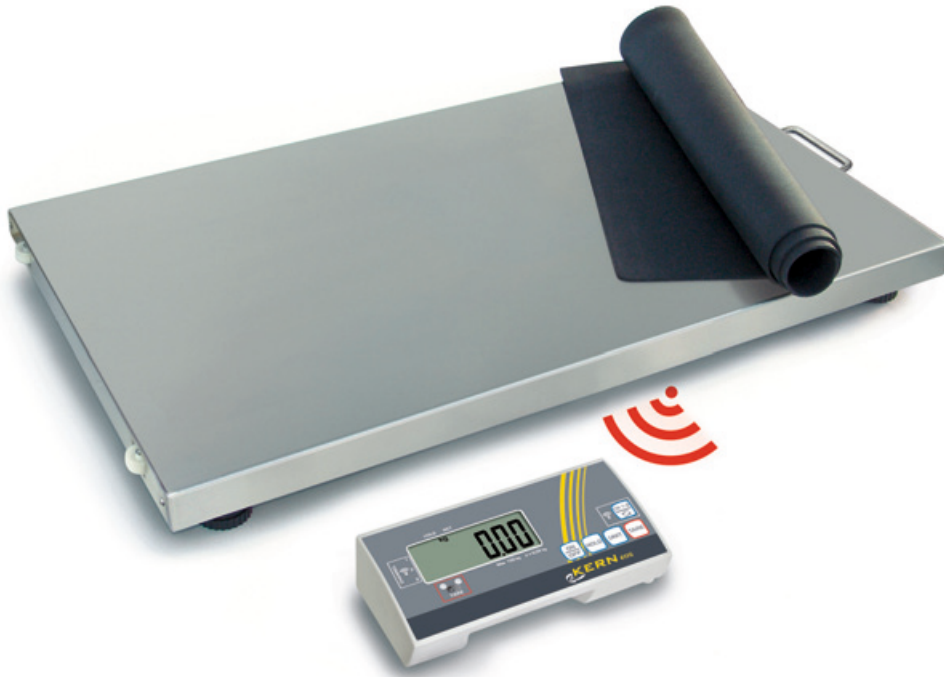


OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
								DKD KERN	€
KERN									
EOB 15K5	15	5	5	± 10	4	A	130,-	963-128	80,-
EOB 35K10	35	10	10	± 20	4	A	130,-	963-128	80,-
EOB 60K20	60	20	20	± 40	4	A	130,-	963-129	95,-
EOB 60K20L	60	20	20	± 40	13,5	B	320,-	963-129	95,-
EOB 150K50	150	50	50	± 100	4	A	130,-	963-129	95,-
EOB 150K50L	150	50	50	± 100	13,5	B	320,-	963-129	95,-
EOB 150K50XL	150	50	50	± 100	19,5	C	350,-	963-129	95,-
EOB 300K100A	300	100	100	± 200	4	A	140,-	963-129	95,-
EOB 300K100L	300	100	100	± 200	13,5	B	320,-	963-129	95,-
EOB 300K100XL	300	100	100	± 200	19,5	C	350,-	963-129	95,-
EOS 150K50XL	150	50	50	± 100	18,8	D	360,-	963-129	95,-
EOS 300K100XL	300	100	100	± 200	18,8	D	360,-	963-129	95,-

Platform scale KERN EOS-F



No need for a cable with KERN! Wireless communication between the platform and display device for maximum flexibility

Features

- **Display device with integrated radio module** for wireless communication with the weighing platform: ideal for weighing contaminated items, weighing in loud environments or where physical separation is necessary
- **Touchless tare function:** just give it a wave. No need to operate the scale with dirty gloves any more
- **For networked operation:** 3 frequencies for parallel use of several weighing platforms with a single display device
- **High mobility** thanks to battery operation for display device and platform, operating time approx. 70 h

- **2 rollers and handle** for easy transport of the scale
- **Simple and convenient 4-key operation**
- **Vibration-free weighing:** at the push of a button, a stable average weight is given when the environmental conditions are unstable or when weighing animals
- **Wall mount** for display device standard

Technical data

- Large LCD display, digit height 25 mm
- Dimensions of weighing plate (stainless steel) WxDxH 900x550x60 mm
- Optional battery operation, each 6 x 1.5 V AA (Display device and Platform), batteries not standard

- 2 mains adapters (external) for display device and platform included
- Net weight approx. 22 kg
- Permissible ambient temperature 10 °C / 35 °C

Accessories

- **Non-slip rubber mat** standard, can be reordered, KERN EOS-A01, € 35,-
- **Stand** to elevate display device, height of stand approx. 950 mm, KERN MWS-A01, € 140,-

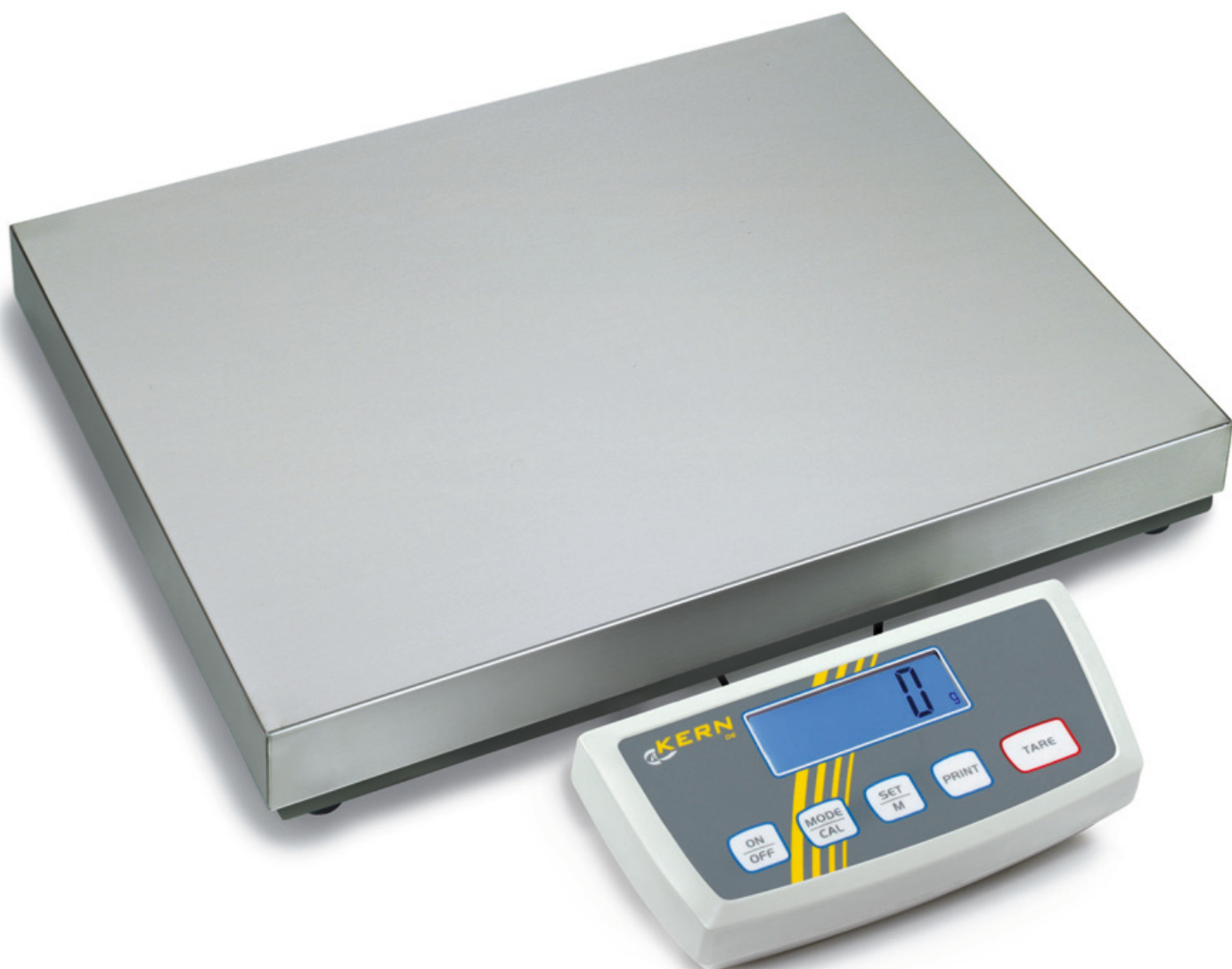
STANDARD



OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
						DKD KERN	€
KERN EOS 150K50XLF	150	50	50	± 100	430,-	963-129	95,-
KERN EOS 300K100XLF	300	100	100	± 200	430,-	963-129	95,-



09

The success story with IP65 display device

Features

- **High mobility:** Battery operation/rechargeable battery pack (optional), compact, flat construction and low weight make this balance ideal for use in several locations (production, warehouse, dispatch department, ...)
- **Flexible positioning of display device:** eg. free-standing or mounted to the wall (optional)

- **Display device IP65.** Protected against dust and water splashes (only when using battery or rechargeable battery pack)
- **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 recall the total weight of all the ingredients

- **Freely programmable weighing unit,** e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar

Platform scale KERN DE-D



Technical data

- Large backlit LCDdisplay, digit height 25 mm
- Dimensions of weighing plate stainless steel WxDxH
 - A 318x308x75 mm
 - B 318x308x85 mm
 - C 522x406x100 mm
 - D 522x403x90 mm, see larger picture
 - E 650x500x105 mm
- Dimensions of display device WxDxH 225x110x45 mm
- Optional battery operation, 9 V Block, not included
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover** over the display device, standard, can be reordered, KERN DE-A12, € 30,-
- **Rechargeable battery pack internal**, operating time approx. 15 h, charging time approx. 10 h, KERN NDE-A02, € 40,-
- **Mount** to fasten the display device to the platform, KERN DE-A11N, € 30,-
- **Wall mount** for display device, KERN DE-A13, € 30,-
- **Stand** to elevate display device, height of stand approx. 450 mm, KERN DE-A10, € 70,-

- **Individual header data:** the free software KERN SHM-01 can be used to print 4 header lines on the printout for printers 911-013 and YKB-01N
- **Suitable printers** see page 130

STANDARD



OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Cable length approx. m	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
										DKD KERN	€
Dual-range balance (D=Dual): switches automatically to the next largest weighing range [Max] and readout [d].											
DE 6K1D	3 6	1 2	1 2	± 3 ± 6	4	1,4	4	A	175,-	963-128	80,-
DE 15K2D	6 15	2 5	2 5	± 6 ± 15	10	1,4	4	A	175,-	963-128	80,-
DE 35K5D	15 35	5 10	5 10	± 15 ± 30	10	1,4	4	A	175,-	963-128	80,-
DE 35K5DL	15 35	5 10	5 10	± 15 ± 30	10	1,4	16	D	270,-	963-128	80,-
DE 60K10D	30 60	10 20	10 20	± 30 ± 60	20	1,4	4	A	175,-	963-129	95,-
DE 60K10DL	30 60	10 20	10 20	± 30 ± 60	20	1,4	16	D	270,-	963-129	95,-
DE 150K20D	60 150	20 50	20 50	± 60 ± 150	40	1,4	4	A	175,-	963-129	95,-
DE 150K20DL	60 150	20 50	20 50	± 60 ± 150	40	1,4	16	D	270,-	963-129	95,-
DE 150K20DXL	60 150	20 50	20 50	± 60 ± 150	40	1,4	28	E	370,-	963-129	95,-
DE 300K50D	150 300	50 100	50 100	± 150 ± 300	100	1,4	16	D	270,-	963-129	95,-
DE 300K50DL	150 300	50 100	50 100	± 150 ± 300	200	1,4	28	E	370,-	963-129	95,-
DE 6K0.5A	6	0,5	0,5	± 1,5	1	1,4	4	A	199,-	963-128	80,-
DE 12K1A	12	1	1	± 3	2	1,4	4	A	199,-	963-128	80,-
DE 24K2A	24	2	2	± 6	4	1,4	4	A	199,-	963-128	80,-
DE 60K5A	60	5	5	± 15	10	1,4	4	A	199,-	963-129	95,-
DE 120K10A	120	10	10	± 30	20	1,4	4	A	199,-	963-129	95,-
Dual range balance (D=Dual) with high-resolution display											
DE 15K0.2D	6 15	0,2 0,5	0,2 0,5	± 0,8 ± 2	0,4	1	4	B	305,-	963-128	80,-
DE 35K0.5D	15 35	0,5 1	0,5 1	± 2 ± 4	1	1	4	B	305,-	963-128	80,-
DE 60K1D	30 60	1 2	1 2	± 4 ± 8	2	1	4	B	305,-	963-129	95,-
DE 60K1DL	30 60	1 2	1 2	± 4 ± 8	2	1,4	16	C	370,-	963-129	95,-
DE 150K2D	60 150	2 5	2 5	± 8 ± 20	4	1	4	B	305,-	963-129	95,-
DE 150K2DL	60 150	2 5	2 5	± 8 ± 20	4	1,4	16	C	370,-	963-129	95,-
DE 300K5DL	150 300	5 10	5 10	± 20 ± 40	10	1,4	16	C	370,-	963-129	95,-

Platform scale KERN IFS-D



Note: Special IFS models with increased counting resolution, see page 85

The industrial scale for professionals

Features

- **Industrial quality:** because of its stable construction and robust design, it is ideal for continuous use in industrial applications
- **Benchtop stand incl. wall mount** for display device as standard
- **Precise counting:** The manual optimisation of reference weight gradually improves the average value of the piece weight
- **Level indicator and foot screws** to level the balance precisely, fitted as standard, to give the most accurate weighing results
- **Totalizing** of counting operations

Technical data

- Backlit LCD displays, digit height 16,5 mm
- Dimensions of weighing plate (stainless steel) WxDxH
 - A 300x240x100 mm
 - B 400x300x128 mm
 - C 500x400x137 mm, see larger picture
 - D 650x500x142 mm
- Dimensions of display device WxDxH 260x150x65 mm
- Cable length of display device approx. 2,5 m
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Stand** to elevate display device, height of stand approx. 330 mm, KERN IFB-A01, € 40,-
height of stand approx. 600 mm, for models with weighing plate sizes C and D, KERN IFB-A02, € 50,-
- **Protective working cover** standard, can be reordered, KERN KFB-A02, € 30,-
- **Rechargeable battery pack internal**, operating time up to 40 h without backlight, charging time approx. 12 h, can be reordered, KERN KFS-A01, € 35,-
- **Signal lamp** for visual support of weighing with tolerance range, must be ordered at purchase, WxDxH 100x180x300 mm, KERN CFS-A03, € 250,-
- **Suitable printers** see page 130

STANDARD



OPTION



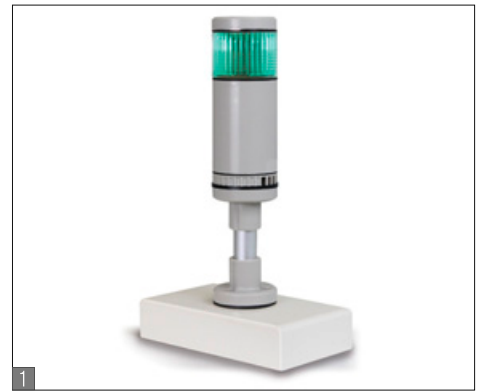
FACTORY



Model KERN	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Min. piece weight [PW min] g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
									DKD KERN	€
Dual-range balance (D=Dual): switches automatically to the next largest weighing range [Max] and readout [d].										
IFS 15K0.2D *	6 15	0,2 0,5	0,2 0,5	± 0,8 ± 2	1	6	A	280,-	963-128	80,-
IFS 30K0.2DL	12 30	0,2 0,5	0,2 0,5	± 0,8 ± 2	0,5	10	B	380,-	963-128	80,-
IFS 60K0.5D	30 60	0,5 1	0,5 1	± 2 ± 4	1	10	B	390,-	963-129	95,-
IFS 60K0.5DL	30 60	0,5 1	0,5 1	± 2 ± 4	1	16	C	460,-	963-129	95,-
IFS 120K1D *	60 120	1 2	1 2	± 4 ± 8	8	16	C	470,-	963-129	95,-
IFS 150K2DL *	60 150	2 5	2 0	± 2 ± 5	10	22	D	570,-	963-129	95,-
IFS 300K5D *	150 300	5 10	5 10	± 20 ± 40	20	22	D	570,-	963-129	95,-

! *ONLY WHILE STOCKS LAST

Platform scale KERN IFB



Accessories

Platform scale with EC type approval [M]

Features

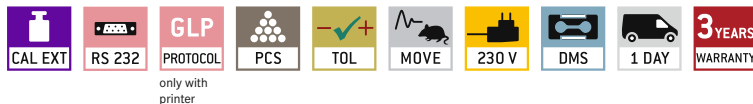
- **Industrial quality:** because of its stable construction and robust design, it is ideal for continuous use in industrial applications
- **Benchtop stand incl. wall mount** for display device as standard
- **Level indicator and foot screws** to level the balance precisely, fitted as standard, to give the most accurate weighing results
- **Totalizing** of weights and counting operations

Technical data

- Large backlit LCDdisplay, digit height 52 mm
- Dimensions of weighing plate (stainless steel) WxDxH
 - A 300x240x100 mm
 - B 400x300x128 mm
 - C 500x400x137 mm, see larger picture
 - D 650x500x142 mm
- Cable length of display device approx. 2,5 m
- Permissible ambient temperature -10 °C / 40 °C

- **Protective working cover** over the display device standard, can be reordered, KERN KFB-A02, € 30,-
- **1 Signal lamp** for visual support of weighing with tolerance range, must be ordered at purchase, WxDxH 100x180x300 mm, KERN CFS-A03, € 250,-
- **2 Stand** to elevate display device, height of stand approx. 330 mm, KERN IFB-A01, € 40,- height of stand approx. 600 mm, for models with weighing plate sizes C and D, KERN IFB-A02, € 50,-
- **Y cable**, RS-232, KERN CFS-A04, € 35,-
- **Rechargeable battery pack internal**, operating time approx. 35 h, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01, € 35,-
- **Suitable printers** see page 130

STANDARD



OPTION



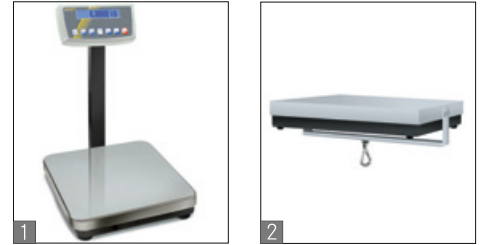
FACTORY



only with printer

Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
								MIII KERN	€	DKD KERN	€
Dual-range balance (D=Dual): switches automatically to the next largest weighing range [Max] and readout [d].											
IFB 6K1DM	3 6	1 2	1 2	20	6	A	290,-	965-228	50,-	963-128	80,-
IFB 15K2DM	6 15	2 5	2 5	40	6	A	290,-	965-228	50,-	963-128	80,-
IFB 15K2DLM	6 15	2 5	2 5	40	10	B	350,-	965-228	50,-	963-128	80,-
IFB 30K5DM	15 30	5 10	5 10	100	10	B	350,-	965-228	50,-	963-128	80,-
IFB 60K10DM	30 60	10 20	10 20	200	10	B	350,-	965-229	75,-	963-129	95,-
IFB 60K10DLM	30 60	10 20	10 20	200	16	C	430,-	965-229	75,-	963-129	95,-
IFB 150K20DM	60 150	20 50	20 50	400	16	C	430,-	965-229	75,-	963-129	95,-
IFB 150K20DLM	60 150	20 50	20 50	400	22	D	570,-	965-229	75,-	963-129	95,-
IFB 300K50DM	150 300	50 100	50 100	1000	22	D	570,-	965-229	75,-	963-129	95,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.



Industrial scale with laboratory accuracy, also with EC type approval [M]

Features

- **User guidance step by step** through Yes/No dialogue on the display
- **Numerical subtraction of tare weight** for known container weight. Useful for checking fill-levels
- **Precise counting:** The automatic optimisation of reference weight gradually improves the average value of the piece weight

Technical data

- Large backlit LCDdisplay, digit height 18 mm
- Dimensions of weighing plate stainless steel WxDxH
 - A** 228x228x70 mm
 - B** 308x318x75 mm, see larger picture
 - C** 450x350x115 mm
- Dimensions of display device WxDxH 225x115x60 mm
- Permissible ambient temperature KERN DS: 10 °C / 40 °C KERN DS-M: 10 °C / 30 °C

Accessories

- **Protective working cover** over the display device, standard, can be reordered, KERN DE-A12, € 30,-
- **Stand** to elevate display device, height of stand approx. 480 mm, KERN DE-A10, € 70,-
- **Mount** to fasten the display device to the platform, KERN DE-A11, € 30,-
- **Wall mount** for display device, can be reordered, KERN DS-A02, € 30,-
- **Set for underfloor weighing**, for models with weighing plate sizes **B**, KERN DS-A01, € 200,-
- **Rechargeable battery pack external**, operating time approx. 25 h, charging time approx. 10 h, KERN KS-A01, € 180,-
- **Rechargeable battery pack internal**, operating time up to 10 h, charging time approx. 10 h, can be reordered, KERN KB-A01N, € 45,-
- **Suitable printers** see page 130

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Reproducibility g	Min. piece weight [PW min] g/piece	Cable length approx. m	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
										Verification		DKD Calibr. Certificate	
										M II KERN	€	DKD KERN	€
DS 3K0.01S	3	0,01	-	0,02	0,01	2	5,1	A	640,-	-	-	963-127	65,-
DS 5K0.05S	5	0,05	-	0,05	0,05	2	5,1	A	560,-	-	-	963-127	65,-
DS 8K0.05	8	0,05	-	0,05	0,05	2	7,5	B	550,-	-	-	963-128	80,-
DS 10K0.1S	10	0,1	-	0,1	0,1	2	4,5	A	530,-	-	-	963-128	80,-
DS 16K0.1	16	0,1	-	0,1	0,1	2	7,5	B	550,-	-	-	963-128	80,-
DS 20K0.1	20	0,1	-	0,1	0,1	2	7,5	B	580,-	-	-	963-128	80,-
DS 30K0.1	30	0,1	-	0,1	0,1	2	7,5	B	610,-	-	-	963-128	80,-
DS 30K0.1L	30	0,1	-	0,1	0,1	0,6	9,5	C	700,-	-	-	963-128	80,-
DS 36K0.2	36	0,2	-	0,2	0,2	2	7,5	B	550,-	-	-	963-128	80,-
DS 36K0.2L	36	0,2	-	0,2	0,2	0,6	9,5	C	660,-	-	-	963-128	80,-
DS 60K0.2	60	0,2	-	0,2	0,2	0,6	9,5	C	740,-	-	-	963-129	95,-
DS 65K0.5	65	0,5	-	0,5	0,5	0,6	9,5	C	700,-	-	-	963-129	95,-
DS 100K0.5	100	0,5	-	0,5	0,5	0,6	9,5	C	740,-	-	-	963-129	95,-
DS 150K1	150	1	-	1	1	0,6	9,5	C	740,-	-	-	963-129	95,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.													
DS 65K1M	65	1	10	1	1	0,6	9,5	C	790,-	950-118	100,-	963-129	95,-



High-resolution industrial scale for the most precise results up to 50 kg, also with EC type approval [M]

Features

- **Laboratory balance with separate platform:** Ideal when working in a glove-bag or under laboratory fume hoods. Particularly practical for weighing toxic, volatile or contaminated substances
- **1** Particularly suitable for compact, very dense samples, such as for example those encountered in road construction or the construction industry
- **Robust construction of the platform** ensures stability, protects the weighing technology elements and is robust enough to cope with everyday use
- **2** only KERN ILJ: **Automatic internal adjustment** in the case of a change in temperature $\geq 3\text{ }^{\circ}\text{C}$ or time-controlled every 3 hours

- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Weighing with tolerance range (checkweighing):** a visual signal helps with portion division, dispensing or grading
- **Totalizing of weights** (manual/automatic)
- Higher weighing speed by switching off the last digit
- **GLP/ISO record keeping of weight values** with date, time, user ID, project and serial number in combination with an appropriate KERN printer
- **Density determination** of liquids and solids. User guidance step by step on the display. The density is indicated directly on the display.
Note: Interesting facts about density determination see page 10

Technical data

- Large backlit LCDdisplay, digit height 18 mm
- Dimensions of weighing plate WxD 347x259 mm
- Dimensions of display device WxDxH 270x165x115 mm
- Cable length of display device approx. 1 m
- Permissible ambient temperature $10\text{ }^{\circ}\text{C} / 40\text{ }^{\circ}\text{C}$

Accessories

- **Protective working cover** over the display device, standard, can be reordered, KERN ILS-A02, € 25,-
- **Suitable printers** see page 130

STANDARD

CAL EXT
 CAL INT
 RS 232
 GLP
 PROTOCOL
 PCS
 PERCENT
 UNIT
 TOL
 UNDER
 230 V
 FORCE
 1 DAY
 3 YEARS WARRANTY

only ILS **2** only with printer

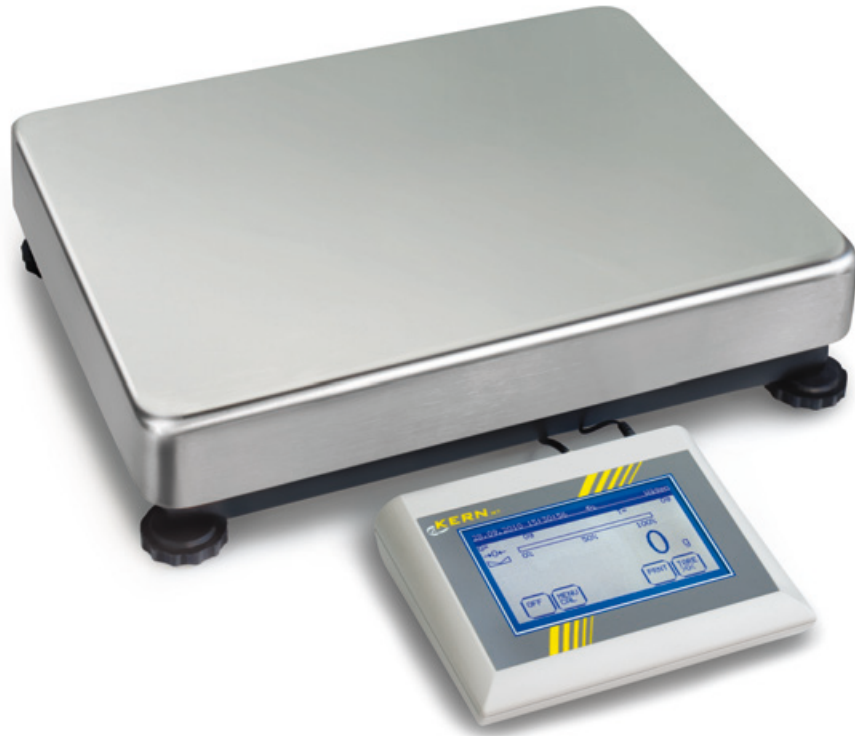
OPTION

DKD
+3 DAYS

FACTORY

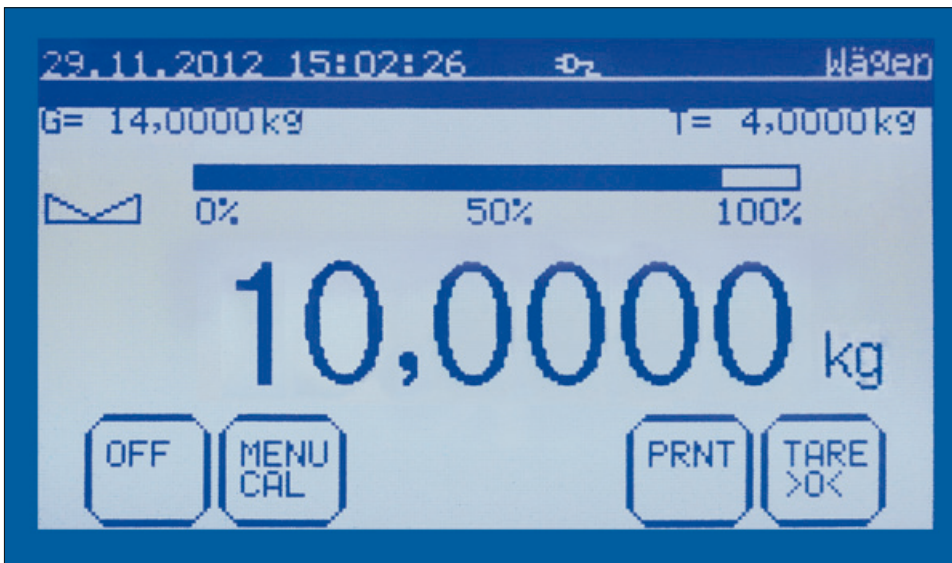
M
+3 DAYS
only ILJ

Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Net weight approx. kg	Price excl. of VAT ex works €	Options				
							Verification		DKD Calibr. Certificate		
							KERN	€	KERN	€	
KERN											
ILS 30K-4	30	0,1	-	-	13,5	1700,-	-	-	963-128	80,-	
ILS 50K-4	50	0,1	-	-	13,5	2250,-	-	-	963-128	80,-	
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.											
ILJ 25K-4M	25	0,1	1	5	19,9	1970,-	965-228	50,-	963-128	80,-	



Touchscreen platform scale with enormous range of functions, now with EC type approval [M]

09



Display at full size, operating mode weighing



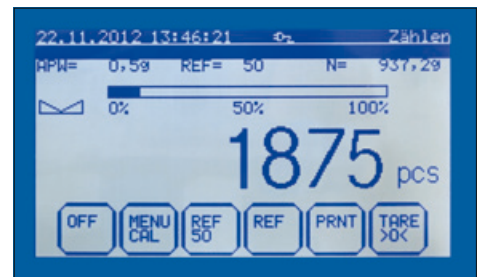
Clear menu structure with the keys labelled with plain text and touch-sensitive display
The menu and processes are self-explanatory. This reduces the training times, avoids operating errors and in this way, ensures more efficient, rapid operation



Easy input of text and values using large keypad



40 memories for each mode, for checkweighing, pre-tare, reference weight, target weight when dispensing etc.



Professional counting function
All relevant counting information at a glance, such as, for example, reference weight, reference quantity, total count, total weight, tare container weight, available weighing range and much more

Platform scale KERN IKT

Features

- **Innovative touchscreen:** Large touch-sensitive, backlit screen with very good contrast for easy operation and convenient reading
- **Maximum transparency:** All function keys are labelled with plain text which ensures that they are easily understood. The menu tree overlay in the info bar allows you to see at a glance which function is currently in use
- **Advantages:**
 - No more errors or lost time through keys which have several functions or unclear markings
 - Large keys, which can also be operated while wearing gloves
- **Convenient recipe weighing:** 5 recipes each with 7 components can be stored in plain text

Technical data

- Back-lit LCD graphic display with digit height 18 mm, screen diagonal 5.8" (approx. 147 mm, WxH 108x74 mm)
- Dimensions of weighing plate stainless steel WxDxH
 - A** 228x228x70 mm
 - B** 315x305x75 mm
 - C** 450x350x115 mm, see larger picture
 - D** 650x500x142 mm
- Dimensions of display device WxDxH 200x155x68 mm

- Cable length of display device for weighing plate size
 - A, C, D** approx. 0,6 m
 - B** approx. 1 m
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over the display device standard, KERN IKT-A01, **€ 25,-**
- **Rechargeable battery pack external**, operating time up to 10 h, charging time approx. 10 h, can be reordered, KERN KS-A01, **€ 180,-**
- **Set for underfloor weighing**, consisting of platform, handle and hook, only for models with weighing plate sizes **B**, KERN DS-A01, **€ 200,-**
- **Signal lamp** for visual support of weighing with tolerance range, KERN IKT-A04, **€ 250,-**
- **RS-232/Ethernet adapter**, to connect balances with an RS 232 interface to a network, using Ethernet, details see page 131, KERN YKI-01, **€ 390,-**
- **Stand** to elevate display device, only for models with weighing plate sizes **B, C**, KERN IKT-A06, **€ 100,-**
- **Wall mount** for display device, KERN IKT-A03, **€ 30,-**
- **Suitable printers** see page 130

Modes

- ① Weighing
- ② Counting
- ③ Dispensing
- ④ Recipe weighing
- ⑤ Checkweighing
- ⑥ Totalizing with daily total
- ⑦ Percentage determination
- ⑧ Animal weighing
- ⑨ Surface weight
- ⑩ Density determination, only with **B**, not for **M**
- ⑪ Rapid mode, not for **M**

Functions

- Capacity display, with ① - ②, ⑦, ⑨ - ⑩
- Dispensing assistance (subtractive, additive), with ①, ④
- Net/Gross display, permanently on, with ① - ⑩
- Variable reference quantity, with ②
- Automatic reference optimisation, with ②
- Tare deduction numerical or from the memory unit, with ① - ⑩
- Input of item or batch description, operator etc., with ① - ⑩
- Freely programmable weighing unit, e.g. display directly in special units such as length of thread g/m, paper weight g/m², or similar, with ①, ⑨
- Date/time, with ① - ⑩
- Statistical function, with ①, ③, ⑤
- GLP printout, with ① - ⑩
- Individual printout configuration, with ① - ⑩

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] g	Min. piece weight [PW min] g/piece	Net weight approx. kg	Weighing plate	Price excl. of VAT ex works €	Options			
									Verification		DKD Calibr. Certificate	
									M III KERN	€	DKD KERN	€
IKT 6K0.1	6	0,1	-	-	0,1	7,5	B	830,-	-	-	963-128	80,-
IKT 12K0.2	12	0,2	-	-	0,2	7,5	B	830,-	-	-	963-128	80,-
IKT 30K0.5	30	0,5	-	-	0,5	7,5	B	830,-	-	-	963-128	80,-
IKT 60K1L	60	1	-	-	1	9,5	C	1050,-	-	-	963-129	95,-
IKT 120K2L	120	2	-	-	2	9,5	C	1050,-	-	-	963-129	95,-
IKT 150K2XL	150	2	-	-	2	20	D	1200,-	-	-	963-129	95,-
IKT 300K5XL	300	5	-	-	5	20	D	1200,-	-	-	963-129	95,-
High-resolution display												
IKT 3K0.01S	3	0,01	-	-	0,01	5,1	A	920,-	-	-	963-127	65,-
IKT 8K0.05	8	0,05	-	-	0,05	7,5	B	850,-	-	-	963-128	80,-
IKT 10K0.1S	10	0,1	-	-	0,1	5,1	A	850,-	-	-	963-128	80,-
IKT 16K0.1	16	0,1	-	-	0,1	7,5	B	850,-	-	-	963-128	80,-
IKT 30K0.1	30	0,1	-	-	0,1	7,5	B	850,-	-	-	963-128	80,-
IKT 30K0.1L	30	0,1	-	-	0,1	9,5	C	1150,-	-	-	963-128	80,-
IKT 36K0.2	36	0,2	-	-	0,2	7,5	B	850,-	-	-	963-128	80,-
IKT 36K0.2L	36	0,2	-	-	0,2	9,5	C	1050,-	-	-	963-128	80,-
IKT 60K0.2L	60	0,2	-	-	0,2	9,5	C	1120,-	-	-	963-129	95,-
IKT 65K0.5L	65	0,5	-	-	0,5	9,5	C	1050,-	-	-	963-129	95,-
IKT 100K0.5L	100	0,5	-	-	0,5	9,5	C	1150,-	-	-	963-129	95,-
IKT 150K1L	150	1	-	-	1	9,5	C	1150,-	-	-	963-129	95,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.												
IKT 6K1M	6	1	1	20	1	7,5	B	990,-	950-128	50,-	963-128	80,-
IKT 12K2M	12	2	2	40	2	7,5	B	990,-	950-128	50,-	963-128	80,-
IKT 30K5M	30	5	5	100	5	7,5	B	1010,-	950-128	50,-	963-128	80,-
IKT 60K10LM	60	10	10	200	10	9,5	C	1250,-	950-129	75,-	963-129	95,-
IKT 120K20LM	120	20	20	400	20	9,5	C	1250,-	950-129	75,-	963-129	95,-

10 Floor, pallet and drive-through scales

KERN Model		Page
BOBP	Floor scale with the best price performance ratio	103
BFS	Robust floor scale with piece-counting function	104
BFB	Affordable floor scale with EC type approval [M]	105
BFN	Stainless steel floor scale in XL size with IP68 platform	106
UFA	Weighing beams can be used for large loads in many applications	107
UFB	Robust pallet scale in two versions, suitable with EC type approval [M]	108
UFN		
NFB	Robust, industrial drive-through scale with two integrated access ramps, suitable for verification [M]	109



Robust assistant when weighing large loads

KERN offers a carefully coordinated range of affordable entry level models, through to practical built-in solutions up to the top level verified models made of stainless steel. The common factor is the long-lasting industrial quality as well as the high level of protection against dust and water splashes.

The setup, startup, and possible calibration of floor, pallet, and drive-through scales require specialized knowledge, which is the basis for a successful sale. Please ask for our „Floor scale info sheet“.

High-capacity balances – ideal for piece counting with large numbers of items

The weighing ranges of bench counting scales are often not sufficient to count large quantities, units, items on pallets, etc. This is where high-performance counting systems come into their own, as these combine a high-precision reference balance with a high-capacity bulk scale, such as for example floor scales, pallet scales or drive-through scales. Your personal KERN customer adviser will be happy to help you put together the right high-capacity counting system for you.

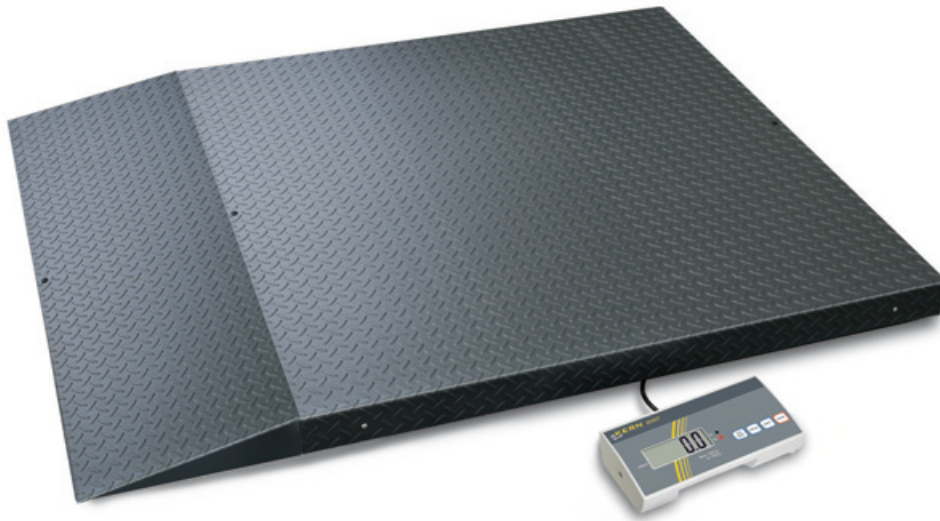


Quick-Finder

■ = Standard □ = Option

Read-out d	Weighing range Max	Model KERN	Price € excl. VAT ex works	Page	DAYS ready for shipping												For an explanation of the symbols, see the flap of the envelope											
																	200 g	300 kg	BOBP 300K200	790,-	103	2		■				
200 g	600 kg	BFS 600K200S	890,-	104	2		■		■	■							□											
200 g	600 kg	BFS 600K200	1090,-	104	2		■		■	■							□											
200 g	600 kg	BFB 600K200SM	1130,-	105	2	■	■		■	■			■				□											
200 g	600 kg	BFB 600K200M	1290,-	105	2	■	■		■	■			■				□											
200 g	600 kg	UFB 600K200M	750,-	108	2	■	■		■	■			■				■											
200 g	600 kg	UFN 600K200IPM	1480,-	108	2	■	■		■	■			■	■			■											
200 g	600 kg	NFB 600K200M	1290,-	109	2	■	■		■	■			■				□											
200 g	600 kg	NFB 600K200LM	1390,-	109	2	■	■		■	■			■				□											
500 g	750 kg	BOBP 750K500	790,-	103	2		■										■											
500 g	1,5 t	BFS 1.5T0.5S	1010,-	104	2		■		■	■							□											
500 g	1,5 t	BFS 1.5T0.5	1290,-	104	2		■		■	■							□											
500 g	1,5 t	BFB 1.5T0.5SM	1130,-	105	2	■	■		■	■			■				□											
500 g	1,5 t	BFB 1.5T0.5M	1290,-	105	2	■	■		■	■			■				□											
500 g	1,5 t	BFN 1.5T0.5M	2950,-	106	2	■	■		■	■			■	■			■											
500 g	1,5 t	UFA 1.5T0.5	850,-	107	2		■		■	■			■				□											
500 g	1,5 t	UFB 1.5T0.5M	790,-	108	2	■	■		■	■			■				■											
500 g	1,5 t	UFN 1.5T0.5IPM	1490,-	108	2	■	■		■	■			■	■			■											
500 g	1,5 t	NFB 1.5T0.5M	1290,-	109	2	■	■		■	■			■				□											
500 g	1,5 t	NFB 1.5T0.5LM	1390,-	109	2	■	■		■	■			■				□											
1000 g	1,5 t	BOBP 1.5T1	790,-	103	2		■										■											
1000 g	3 t	BFS 3T1	1290,-	104	2		■		■	■							□											
1000 g	3 t	BFB 3T1M	1290,-	105	2	■	■		■	■			■				□											
1000 g	3 t	BFB 3T1LM	1490,-	105	2	■	■		■	■			■				□											
1000 g	3 t	UFA 3T1	850,-	107	2		■		■	■			■				□											

Floor scale KERN BOBP



1 Dispatch complete on pallet. Please ask for dimensions, gross weight, shipping costs

Floor scale with the best price performance ratio

Features

- **Simple and convenient 4-key operation**
- **Weighing bridge with non-slip steel chequer plate, lacquered.** Overall height of weighing bridge 90 mm, height-adjustable screw feet to level the platform
- **Wall mount** for display device standard
- **Vibration-free weighing:** at the push of a button, a stable average weight is given when the environmental conditions are unstable or when weighing animals

Technical data

- Large LCD display, digit height 25 mm
- Dimensions of weighing plate WxDxH 1006x996x90 mm
- Dimensions of display device WxDxH 210x110x45 mm
- Cable length of display device approx. 6 m
- Optional battery operation, 6 x 1.5 V AA not included. AUTO-OFF function to preserve the batteries. Operating time approx. 60 h
- Net weight approx. 50,5 kg
- Permissible ambient temperature 10 °C / 35 °C

Accessories

- **1 Stand** to elevate display device, height of stand approx. 950 mm, KERN MWS-A01, **€ 140,-**
- **Ascending ramp** including fixing board between weighing bridge and ascending ramp, WxDxH 996x507x87 mm, see larger picture, not included, KERN BOBP-A01, **€ 130,-**

STANDARD



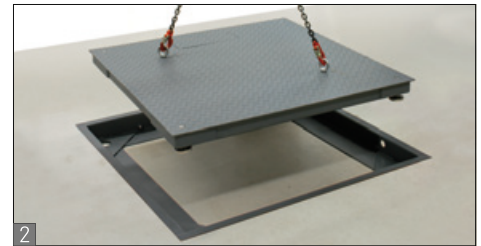
OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
						DKD KERN	€
BOBP 300K200	300	200	200	± 400	790,-	963-129	95,-
BOBP 750K500	750	500	500	± 1000	790,-	963-130	150,-
BOBP 1.5T1	1500	1000	1000	± 2000	790,-	963-130	150,-

1 ONLY WHILE STOCKS LAST

Floor scale KERN BFS



Floor scale with piece-counting function

Features

- **Weighing bridge with non-slip steel chequer plate, lacquered**, overall height 80 mm
- **Easy access to the junction box** from the top
- **Comfortable adjustment of the weighing bridge** from above
- **Display device KERN KFS-T**, details see page 112
- **Benchtop stand incl. wall mount** for display device as standard
- **Precise counting**: The manual optimisation of reference weight gradually improves the average value of the piece weight, see page 79
- **Totalizing** of counting operations
- **Weighing with tolerance range (checkweighing)**: Input of an upper/lower limit value. A visual and audible signal assists with portion division, dispensing or grading

Technical data

- Large backlit LCDdisplay, digit height 16,5 mm
- Dimensions of weighing plate WxDxH
 - A 1000x1000x80 mm
 - B 1500x1250x80 mm
- Dimensions of display device WxDxH 260x150x65 mm
- Permissible ambient temperature 0 °C / 40 °C

Accessories

- **Protective working cover** over the display device standard, can be reordered, KERN KFB-A02, € 30,-
- **Stand** to elevate display device, height of stand approx. 750 mm, similar to illustration, KERN BFS-A07, € 110,-

1 Dispatch complete on pallet. Please ask for dimensions, gross weight, shipping costs

- **Ascending ramp**, not included, or models with weighing plate sizes
 - A WxD 1000x840 mm, KERN BFS-A01, € 205,-
 - B WxD 1250x840 mm, KERN BFS-A02, € 240,-
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BFS-A06, € 60,-
- **Stable pit frame** to install the weighing bridge so you can drive straight on, for models with weighing plate sizes
 - A WxDxH 1090x1090x86 mm, KERN BFS-A03, € 160,-
 - B WxDxH 1590x1340x86 mm, KERN BFS-A04, € 230,-
- **Rechargeable battery pack internal**, operating time up to 40 h without backlight, charging time approx. 12 h, must be ordered at purchase, KERN KFS-A01, € 35,-
- **Suitable printers** see page 130

STANDARD



OPTION



FACTORY

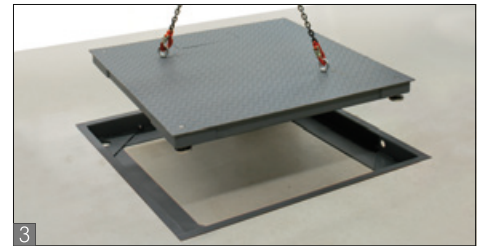


only with printer

Model	Weighing range [Max] kg	Read-out [d] g	Min. piece weight [PW min] g/piece	Net weight approx. kg	Cable length approx. m	Weighing plate	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
								DKD KERN	€
BFS 600K200S	600	200	200	85	5	A	890,-	963-130	150,-
BFS 600K200	600	200	200	135	5	B	1090,-	963-130	150,-
BFS 1.5T0.5S	1500	500	500	85	5	A	1010,-	963-130	150,-
BFS 1.5T0.5	1500	500	500	135	5	B	1290,-	963-130	150,-
BFS 3T1	3000	1000	1000	135	5	B	1290,-	963-132	400,-

1 ONLY WHILE STOCKS LAST

Floor scale KERN BFB



Floor scale with EC type approval [M]

Features

- **Weighing bridge with non-slip steel chequer plate, lacquered**, overall height 80 mm
- **5 Load cell steel, silicone-coated**, IP67 protection
- **Easy access to the junction box** from the top
- **Comfortable adjustment of the weighing bridge** from above
- **Display device KERN KFB-TM**, details see page 113
- **Benchtop stand incl. wall mount** for display device as standard
- **Totalizing** of weights and counting operations

Technical data

- Large backlit LCD display, digit height 52 mm
- Dimensions of weighing plate WxDxH
 - A** 1000x1000x80 mm
 - B** 1500x1250x80 mm
 - C** 1500x1500x80 mm

- Dimensions of display device WxDxH 250x160x58 mm
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Protective working cover** over the display device standard, can be reordered, KERN KFB-A02, € 30,-
- **1 Signal lamp** for visual support of weighing with tolerance range, must be ordered at purchase, WxDxH 100x180x300 mm, KERN CFS-A03, € 250,-
- **2 Stand** to elevate display device, height of stand approx. 750 mm, similar to illustration, KERN BFS-A07, € 110,-
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BFS-A06, € 60,-
- **3 Stable pit frame** to install the weighing bridge so you can drive straight on, for models with weighing plate sizes
 - A** WxD 1085x1085 mm, KERN BFS-A03, € 160,-
 - B** WxD 1335x1585 mm, KERN BFS-A04, € 230,-
 - C** WxD 1585x1585 mm, KERN BFS-A08, € 250,-

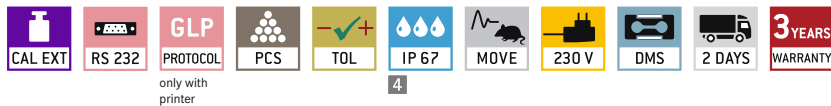
Note: Note: For verified scales the weighing bridge must be fixed to the floor. Optionally, with a access ramp or a footplate pair or a pit frame.

Limited range of tare with verifiable models (1/6 from [Max])

1 Dispatch complete on pallet. Please ask for dimensions, gross weight, shipping costs

- **Rechargeable battery pack internal**, operating time approx. 35 h, charging time approx. 10 h, KERN KFB-A01, € 35,-
- **Ascending ramp**, not included, for models with weighing plate sizes
 - A** WxD 1000x50 mm, KERN BFS-A01, € 205,-
 - B** WxD 1250x50 mm, KERN BFS-A02, € 240,-
 - C** WxD 1500x750 mm, KERN BFS-A09, € 330,-
- **Suitable printers** see page 130

STANDARD



OPTION



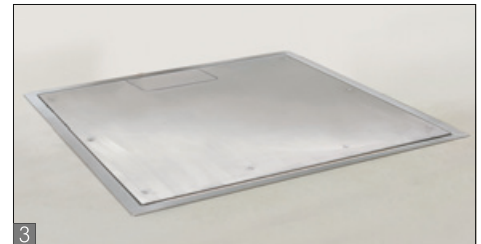
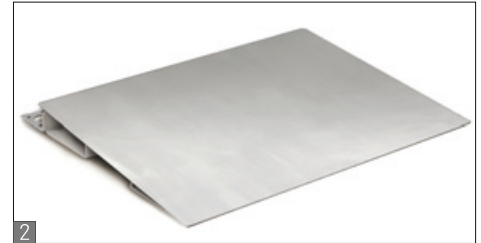
FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] kg	Net weight approx. kg	Cable length approx. m	Weighing plate	Price excl. of VAT ex works €	Options			
									Verification		DKD Calibr. Certificate	
									M III KERN	€	DKD KERN	€
BFB 600K200SM	600	200	200	4000	85	5	A	1130,-	965-230	120,-	963-130	150,-
BFB 600K200M	600	200	200	4000	135	5	B	1290,-	965-230	120,-	963-130	150,-
BFB 1.5T0.5SM	1500	500	500	10000	85	5	A	1130,-	965-230	120,-	963-130	150,-
BFB 1.5T0.5M	1500	500	500	10000	135	5	B	1290,-	965-230	120,-	963-130	150,-
BFB 3T1M	3000	1000	1000	20000	135	5	B	1290,-	965-232	290,-	963-132	400,-
BFB 3T1LM	3000	1000	1000	20000	160	5	C	1490,-	965-232	290,-	963-132	400,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Floor scale KERN BFN



Stainless steel floor scale in XL size with IP68 platform

Features

- **Weighing bridge entirely out of stainless steel**, extremely resistant to bending because of its high material thickness. Weighing plate fixed with stainless steel screws. Weighing bridge can also be delivered as components without the display device, KERN KFP-V40, details see page 114
- **Easy access to the junction box** from the top
- **4 Load cell stainless steel**, welded, IP68
- **5 Display device KERN KFN-TM**, stainless steel, IP67, details see page 113
- **Benchtop stand incl. wall mount** for display device as standard
- **Weighing with tolerance range (checkweighing)**: Input of an upper/lower limit value. A visual and audible signal assists with portion division, dispensing or grading
- **Totalizing** of weights and counting operations

Technical data

- Large backlit LCDdisplay, digit height 52 mm
- Dimensions of weighing plate WxDxH 1500x1250x80 mm
- Dimensions of display device WxDxH 266x165x96 mm
- Rechargeable battery pack internal, standard, operating time approx. 35 h without backlight, charging time approx. 12 h
- Cable length of display device approx. 5 m
- Net weight approx. 135 kg
- Permissible ambient temperature -10 °C / 40 °C

Accessories

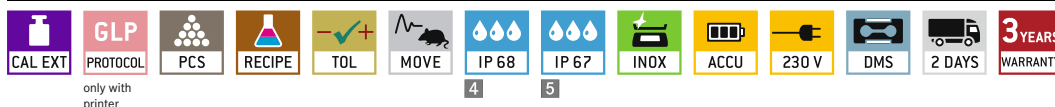
- **1 Stand** to elevate display device, height of stand approx. 750 mm, KERN BFS-A07, € 110,-

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

1 Dispatch complete on pallet. Please ask for dimensions, gross weight, shipping costs.

- **2 Ascending ramp**, stainless steel, incl. attachment plate to fix it to the weighing bridge, dimensions WxDxH 1250x750x85 mm, KERN BFN-A01, € 950,-
- **Pair of base plates** to fix the weighing bridge to the floor, KERN BFN-A03, on request
- **3 Stable pit frame** to install the weighing bridge so you can drive straight on, stainless steel, dimensions WxDxH 1250x1500x86 mm, KERN BFN-A02, € 650,-
- **Data interface RS-232**, interface cable included, must be ordered at purchase, KERN KFN-A01, € 65,-
- **Suitable printers** see page 130

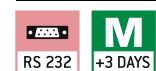
STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] kg	Price excl. of VAT ex works €	Options			
						Verification		DKD Calibr. Certificate	
						M III KERN	€	DKD KERN	€
BFN 1.5T0.5M	1500	500	500	10	2950,-	965-230	120,-	963-130	150,-

Weighing beams KERN UFA



Weighing beams can be used for large loads in many applications

Features

- Ideal for weighing large, bulky or long items
- **High mobility:** thanks to battery operation (optional) and compact, flat construction, it is suitable for use in several locations (production, warehouse, dispatch department, ...)
- **Sturdy handles** to transport the weighing beams
- **Weighing beams steel**, lacquered, solid steel construction, extremely resistant to bending
- **Load cells steel, silicone-coated**
- **Display device KERN KFB-TM**, details see page 113
- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual and audible signal assists with portion division, dispensing or grading
- **Vibration-free weighing:** at the push of a button, a stable average weight is given when the environmental conditions are unstable or when weighing animals

- **Totalizing** of weights and counting operations
- **Benchtop stand incl. wall mount** for display device as standard
- Weighing beams can also be delivered as components without the display device, For additional information see page 115

Technical data

- Large backlit LCDdisplay, digit height 52 mm
- Dimensions weighing beams WxDxH 1200x120x100 mm
- Dimensions of display device WxDxH 250x160x58 mm
- Cable length of display device approx. 5 m
- Cable length weighing beams approx. 2,5 m
- Net weight approx. 35 kg
- Permissible ambient temperature -10 °C / 40 °C

1 Dispatch complete on pallet. Please ask for dimensions, gross weight, shipping costs

Accessories

- **Protective working cover** over the display device standard, can be reordered, KERN KFB-A02, € 30,-
- **Stand** to elevate display device, height of stand approx. 750 mm, KERN BFS-A07, € 110,-
- **Rechargeable battery pack internal**, operating time approx. 35 h, charging time approx. 10 h, KERN KFB-A01, € 35,-
- **Signal lamp** for visual support of weighing with tolerance range, KERN CFS-A03, € 250,-
- **2nd data interface**, Y cable for parallel connection of two terminal devices to the RS 232 interface of the balance, e.g. of a printer, signal lamp etc. KERN CFS-A04, € 35,-
- **Suitable printers** see page 130

STANDARD



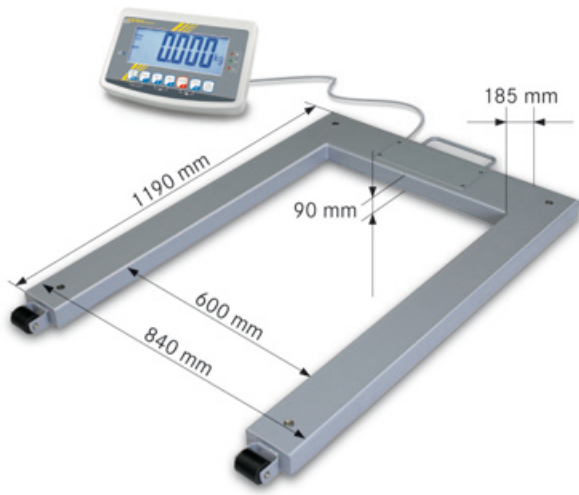
only with printer

OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Reproducibility g	Linearity g	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
						DKD KERN	€
KERN UFA 1.5T0.5	1500	500	500	± 1000	850,-	963-130	150,-
KERN UFA 3T1	3000	1000	1000	± 2000	850,-	963-132	400,-

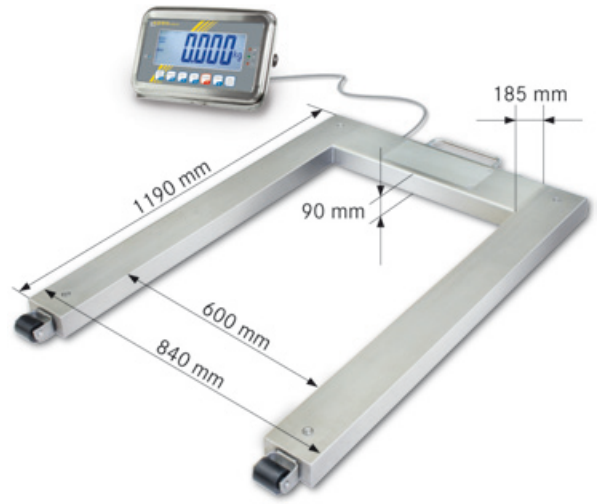
Pallet scales KERN UFB · UFN



KERN UFB



KERN UFN



Pallet scale made from painted steel or stainless steel, suitable with EC type approval [M]

Features

- **High mobility:** thanks to battery operation and compact, flat construction, it is suitable for use in several locations (production, warehouse, dispatch department,...)
- **2 rollers and handle** for easy transport of the scale
- **Dynamic weighing:** at the push of a button, a stable average weight is given when the environmental conditions are unstable or when weighing animals
- **Totalizing** of weights and counting operations
- **1 Load cell steel, silicone-coated, IP67**
- **Load support solid steel construction**, extremely resistant to bending

UFB:

- **Display device KERN KFB-TM**, details see page 113
- **Load support, steel lacquered, IP67**

UFN:

- **Display device KERN KFN-TM, stainless steel, IP67**, details see page 113
- **2 Load support, stainless steel, IP67**

Technical data

- Large backlit LCDdisplay, digit height 52 mm
- Cable length of display device approx. 5 m
- Permissible ambient temperature -10 °C / 40 °C
- Dimensions of display device WxDxH
UFB: 250x160x58 mm
UFN: 266x165x96 mm

UFN:

- **3 Rechargeable battery pack** internal standard, operating time approx. 80 h, charging time approx. 10 h

Accessories

- **3 Stand** to elevate display device, height of stand approx. 750 mm, similar to illustration, KERN BFS-A07, € 110,-

- **Suitable printers** see page 130

UFB:

- **Protective working cover** over the display device standard, can be reordered, KERN KFB-A02, € 30,-
- **5 Rechargeable battery pack internal**, operating time approx. 35 h, charging time approx. 12 h, must be ordered at purchase, KERN KFB-A01, € 35,-
- **Signal lamp** for visual support of weighing with tolerance range, WxDxH 100x180x300 mm, see page 131, KERN CFS-A03, € 250,-

UFN:

- **6 Data interface RS-232**, interface cable included, must be ordered at purchase, KERN KFN-A01, € 65,-

- **4 Dispatch complete on pallet.** Please ask for dimensions, gross weight, shipping costs

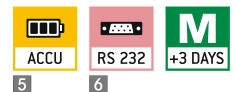
STANDARD



OPTION



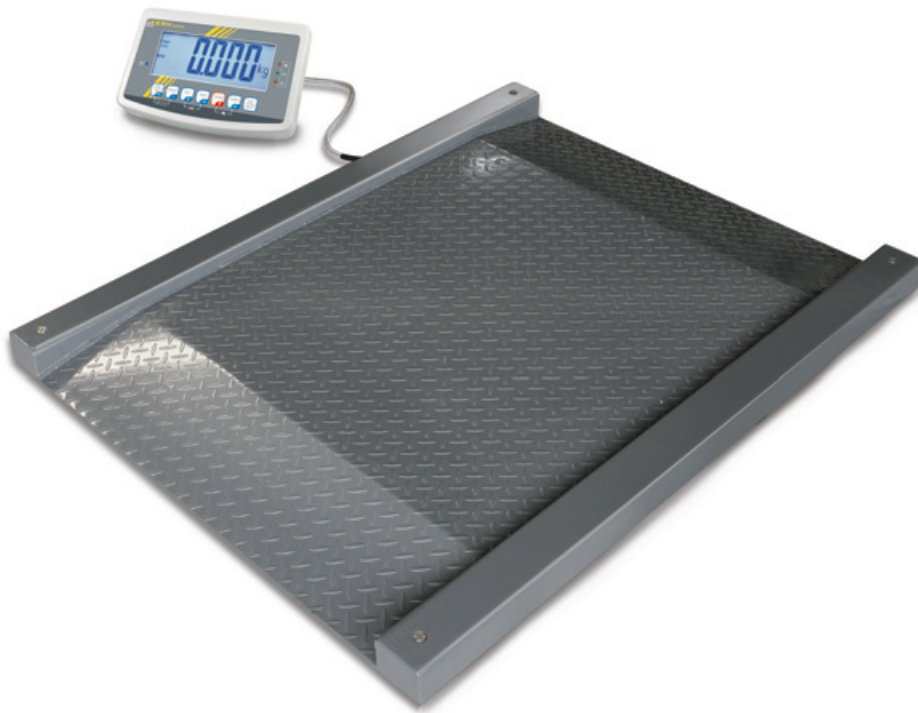
FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Minimum load [Min] kg	Net weight approx. kg	Price excl. of VAT ex works €	Options			
							Verification		DKD Calibr. Certificate	
							M	€	DKD KERN	€
KERN UFB 600K200M	600	200	200	4	43	750,-	965-230	120,-	963-130	150,-
KERN UFB 1.5T0.5M	1500	500	500	10	43	790,-	965-230	120,-	963-130	150,-
stainless steel										
KERN UFN 600K200IPM	600	200	200	4	46	1480,-	965-230	120,-	963-130	150,-
KERN UFN 1.5T0.5IPM	1500	500	500	10	46	1490,-	965-230	120,-	963-130	150,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

Drive-through scale KERN NFB



Industrial drive-through scale with two integrated access ramps, with EC type approval [M]

Features

- Robust drive-through scales for rapid weighing of e.g. wire cage trolleys, shelf trolleys, container trolleys, storage trolleys, sack trucks, truck scales, mobile cages, refuse bins etc.
- **Weighing bridge with non-slip steel chequer plate, lacquered**, extremely resistant to bending
- **4 Load cells steel, silicone-coated.**
IP67 protection: Protection against dust and water, temporary use in wet areas is possible
- **Display device KERN KFB-TM**, details see page 113
- Limited range of tare with verifiable models (1/6 from [Max])

Technical data

- Large backlit LCDdisplay, digit height 52 mm
- Overall dimensions WxDxH
 - A** 1600x1200x78 mm
 - B** 1800x1400x78 mm
- Drive-through width and depth WxD
 - A** 1000x1000 mm
 - B** 1200x1200 mm
- Dimensions of display device WxDxH 250x160x58 mm
- Cable length of display device approx. 5 m
- Net weight approx. 131 kg
- Permissible ambient temperature -10 °C / 40 °C

Accessories

- **Protective working cover** over the display device standard, can be reordered, KERN KFB-A02, **€ 30,-**
- **Stand** to elevate display device, height of stand approx. 750 mm, KERN BFS-A07, **€ 110,-**
- **Signal lamp** for visual support of weighing with tolerance range, WxDxH 100x180x300 mm, see page 131, KERN CFS-A03, **€ 250,-**
- **Suitable printers** see page 130

I For verified scales the weighing bridge must be fixed to the floor. Optionally, with a access ramp or a footplate pair

I Dispatch complete on pallet. Please ask for dimensions, gross weight, shipping costs

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Read-out [d] g	Net weight approx. kg	Verific. value [e] g	Minimum load [Min] kg	Weighing plate	Price excl. of VAT ex works €	Options			
								Verification		DKD Calibr. Certificate	
								M III KERN	€	DKD KERN	€
NFB 600K200M	600	200	131	200	4	A	1290,-	965-230	120,-	963-130	150,-
NFB 600K200LM	600	200	175	200	4	B	1390,-	965-230	120,-	963-130	150,-
NFB 1.5T0.5M	1500	500	131	500	10	A	1290,-	965-230	120,-	963-130	150,-
NFB 1.5T0.5LM	1500	500	150	500	10	B	1390,-	965-230	120,-	963-130	150,-

Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.

11 Display devices / Weighing bridges

Individuality is the trump card

Do you have any special requests, which are not covered by our extensive balance range? Then why not configure your ideal model yourself, it's quick, individual and affordable.

It's your choice:

- Choose one of the many KERN weighing bridges, pallet scales or drive-through scales and combine these with one of the many KERN display devices
- Combine **your** weighing bridge with a KERN display device
- Combine **your** display device with a KERN weighing bridge

With KERN get your ideal balance verified too

To help you achieve a verified individual scale combination KERN offers you full support, such as for example

- Production of proof of compatibility, see page 111
- Support in preparing for verification, EC type approval, setup conditions
- Issue of declaration of conformity upon conformity evaluation (manufacturer's initial verification)



Of course we can also offer you the complete service and put the required scale combination together for you, including verification. All further details can be found on the following pages or ask your personal customer service agent, he will be pleased to advise you.

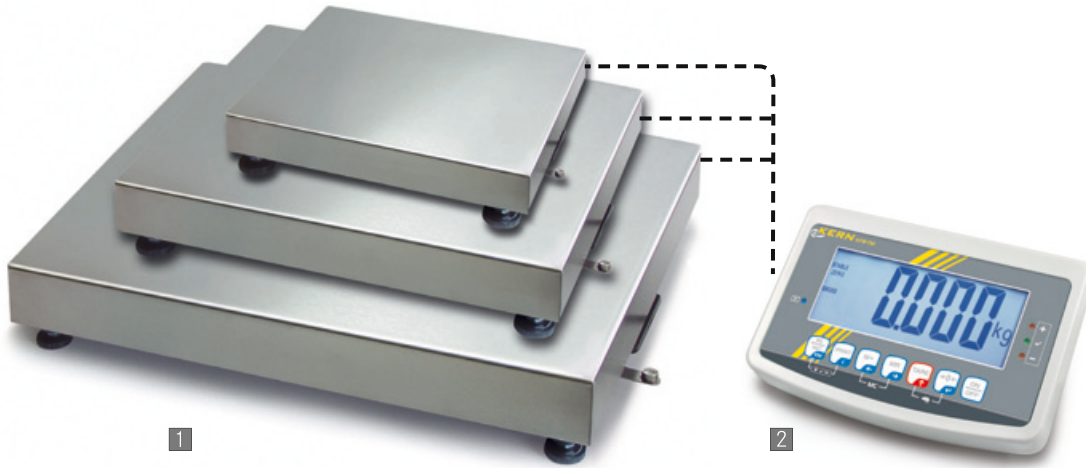
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Individual scale combinations	111
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KFB-TM	113
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Weighing bridge KFP V20	114
Weighing bridge KFP V40	114
Weighing bridge KFD	115
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Weighing beams KFA	115



Your KERN product specialist will be happy to help:

Stephan Ade
Product specialist Industrial scales
 Tel. +49-(0) 74 33-99 33-121
 Fax +49-(0) 74 33-99 33-29121
 ade@kern-sohn.com

KERN Components



You select the KERN-components, KERN will look after the rest:

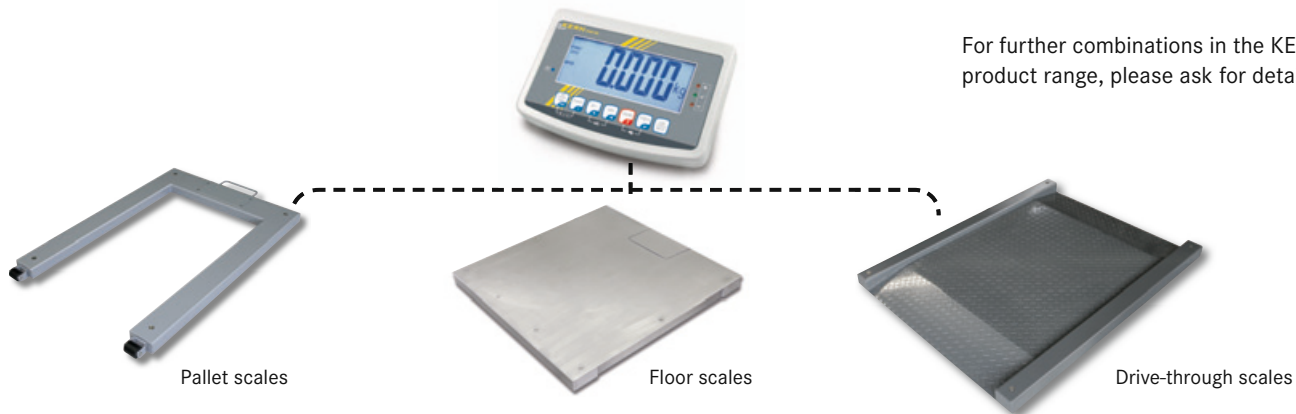
- 1 Platforms KERN KFP etc. (see page 114/115)
- 2 Display devices KFB-TM etc. (see page 112/113)
- 3 Assembly of a complete scale
- 4 Proof of compatibility for on-site verification
- 5 Verification at the factory KERN

Components for individual scale combinations



Services	KERN	Price € excl. of VAT, ex works
(Installation of platform and display device. DKD calibration certificate for complete scales free of charge.)		
1 KERN Platform, see page 114/115		
2 KERN Display devices, see page 112/113		
Assembly to complete scale		
3 Weighing ranges max ≤ 150 kg	930-101	70,-
3 Weighing ranges max > 150 - 600 kg	930-102	100,-
3 Weighing ranges max > 600 - 1500 kg	930-103	120,-
3 Weighing ranges max > 1500 kg	930-104	150,-
Additional price for verification ex works		
4 Proof of compatibility	965-240	45,-
5 Weighing ranges max ≤ 5 kg	965-227	45,-
5 Weighing ranges max > 5 kg - 50 kg	965-228	50,-
5 Weighing ranges max > 50 kg - 350 kg	965-229	75,-
5 Weighing ranges max > 350 kg - 1500 kg	965-230	120,-
5 Weighing ranges max > 1500 kg - 3000 kg	965-232	290,-

Order example (Platform KFP 30V20M and display device KFB-TM)	KERN	Price € excl. of VAT, ex works
1 KERN Platform	KFP 30V20M	180,-
2 KERN Display devices	KFB-TM	160,-
3 Assembly of a complete scale		
Weighing ranges max ≤ 150 kg	930-101	70,-
4 Proof of compatibility	965-240	45,-
5 Verification ex works KERN	965-228	50,-
Complete scale (verified)		505,-



For further combinations in the KERN product range, please ask for details.

Verification consultation service for individual scale combinations

Information for specialist balance companies:

If display devices (terminals) with EC-Type approval and weighing bridges (e.g. pallet scales, floor scales or drive-through scales) with EC-Type approval are combined as a complete unit, then this weighing system can be verified as a class III commercial scale.

For this procedure KERN offers the following support:

- 4 Proof of compatibility: We will confirm whether combinations of weighing modules such as display devices, load cells and connecting elements are appropriate for verification. We would be pleased to carry this out for you.
- Authorisation for initial verification by the manufacturer: We will support you in your preparations for verification, issuing the declaration of conformity and be involved with the manufacturer's initial verification.

Display devices KERN KDE · KXE-TM · KFS-T



1 KERN KDE-T

STANDARD



STANDARD



2 KERN KXE-TM

STANDARD



OPTION



3 KERN KFS-T

STANDARD



STANDARD



KERN evaluation devices for many platforms – innovative technology, to construct your own weighing system. Can be used in any combination, e.g. with all platforms on page 114/115

Features	Models KERN		
	1 KDE-T	2 KXE-TM	3 KFS-T
Characteristics	Multi functional scale, protected by IP65	Affordable display device with EC-type Approval [M]	Professional display device with 3 displays
Display (segments)	6 digits	6 digits	6 digits
EC type approval	-	yes	-
Resolution verifiable	-	3.000 e	-
Resolution non verifiable	2 x 20.000 d	30.000 d	2 x 60.000 d
Weighing ranges	≤ 2	≤ 2	≤ 2
Weighing units	g, kg, lb, oz	kg	kg
Graduations	1, 2, 5, 10	1, 2, 5, 10, n	1, 2, 5, ... 10, n
Piece counting with reference	5, 10, 20, 25, 50	-	n
Display, digit height	backlit LCD display, 25 mm	backlit LCD display, 25 mm	backlit LCD display, 13/16,5 mm
Additional functions	PRE-TARE function	Data Hold function, PRE-TARE function	Totalizing
WSG load cells	87 - 1600 Ω		
Linearisation	4 points	-	5 points
Input voltage	100-240 V, 50/60 Hz	120-230 V, 50/60 Hz	12 V / 500 mA
Permissible ambient temperature	5 °C / 35 °C	0 °C / 40 °C	0 °C / 40 °C
Interface RS 232	yes	-	yes
Column	-	-	BFS-A07, see page 104, € 110,-
Benchtop stand for display device	DE-A13, € 30,-	yes / yes	yes / yes
Wall mount	DE-A12, see page 95, € 30,-	-	KFB-A02, see page 96, € 30,-
Rechargeable battery pack	NDE-A02, see page 95, € 40,-	-	KFS-A01, see page 96, € 35,-
Operating/charging time	ca. 15 h / 10 h	-	ca. 40 h / 12 h
Dimensions Housing WxDxH	225x110x45 mm	193x94x50 mm	260x150x65 mm
Net weight	1 kg	1 kg	1,5 kg
Price € excl. VAT, ex works	110,-	120,-	130,-



NOTE: If display devices and platforms (weighing bridges) with EC type approval [M] are combined into a complete unit, this weighing system can be verified in the EU as a class III commercial scale. For further details see page 111.

WARRANTY



READY FOR SHIPPING



Display devices KERN KFB-TM · KFE-TM · KFN-TM



4 KERN KFB-TM

STANDARD



STANDARD



5 KERN KFE-TM

STANDARD



STANDARD



6 KERN KFN-TM

STANDARD



STANDARD



KERN evaluation devices for many platforms – innovative technology, to construct your own weighing system. Can be used in any combination, e.g. with all platforms on page 114/115

Features	Models KERN		
	4 KFB-TM	5 KFE-TM	6 KFN-TM
Characteristics	Display device with large digits - easy to read	Stainless steel, protected by IP65	Display device made from stainless steel with IP65 protection
Display (segments)	5 + ½ digits	6 digits	5 + ½ digits
EC type approval	yes	yes	-
Resolution verifiable	6.000 e	6.000 e	6.000 e
Resolution non verifiable	30.000 d	30.000 d	30.000 d
Weighing ranges	≤ 2	≤ 2	≤ 2
Weighing units	kg	-	kg
Graduations	1, 2, 5, 10, n	1, 2, 5, 10, n	1, 2, 5, 10, n
Piece counting with reference	-	-	-
Display, digit height	backlit LCD display, 52 mm	backlit LCD display, 22 mm	backlit LCD display, 52 mm
Additional functions	Totalizing, hold function		Totalizing, hold function
WSG load cells	87 - 1600 Ω	87 - 350 Ω	87 - 1600 Ω
Linearisation	2 points	2 points	2 points
Input voltage	12 V / 500 mA	200-240 V, 50 Hz	100-240 V, 50/60 Hz
Permissible ambient temperature	0° C / 40° C (not verified) -10° C / 40° C (verified)	- 10° C / 40° C	0° C / 40° C (not verified) -10° C / 40° C (verified)
Interface RS 232	yes	-	KFN-A01, see page 72, € 65,-
Column	BFS-A07, see page 104, € 110,-	-	BFS-A07, see page 104, € 110,-
Benchtop stand for display device	yes / yes	yes / yes	yes / yes
Wall mount	KFB-A02, see page 97, € 30,-	-	-
Rechargeable battery pack	KFB-A01, see page 97, € 35,-	included	included
Operating/charging time	ca. 35 h / 12 h	ca. 45 h / 12 h	ca. 50 h / 12 h
Dimensions Housing WxDxH	250x160x58 mm	195x118x83 mm	266x165x96 mm
Net weight	1,5 kg	1 kg	2 kg
Price € excl. VAT, ex works	160,-	220,-	240,-



NOTE: If display devices and platforms (weighing bridges) with EC type approval [M] are combined into a complete unit, this weighing system can be verified in the EU as a class III commercial scale. For further details see page 111.

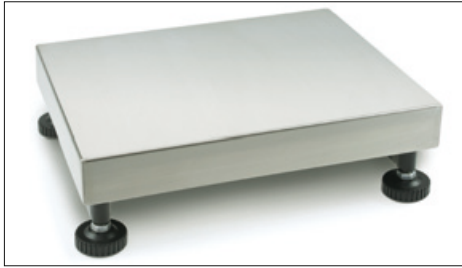
WARRANTY



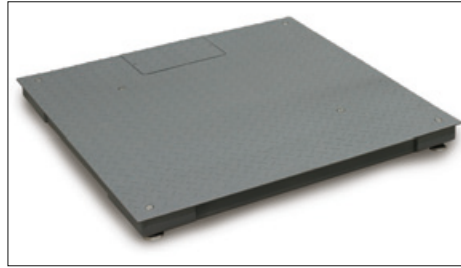
READY FOR SHIPPING



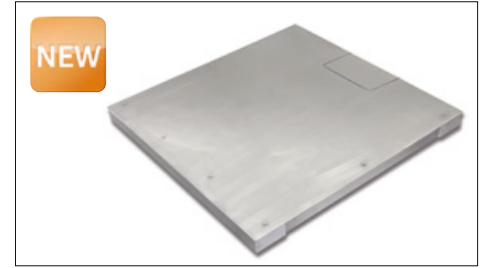
Platforms KERN KFP



1 KERN KFP V20



2 KERN KFP V20



3 KERN KFP V40



- **Stainless steel-weighing plate**, 5 Painted steel base
- **1 load cell, aluminium, silicone-coated, IP65, OIML-approved, class III, 3000 e**
- **Level indicator and foot screws** to level the balance precisely, fitted as standard, to give the most accurate weighing results

- **Weighing bridge with non-slip steel chequer plate**, lacquered, extremely resistant to bending. Painted steel base
- **4 Load cells, steel, silicone-coated, IP67, OIML-R60-approval for verification, class III, 3000 e**
- Can be built in using pit frames (optional)
- **Level indicator and foot screws** to level the balance precisely, fitted as standard, to give the most accurate weighing results
- **Easy access to the junction box** from the top
- **Comfortable adjustment of the weighing bridge** from above
- Accessories page 104/105 (KERN BFS/BFB)

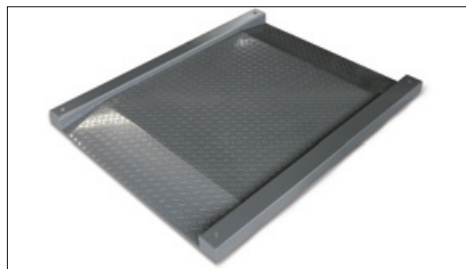
- **Weighing bridge entirely out of stainless steel**, extremely resistant to bending because of its high material thickness
- Weighing plate fixed with stainless steel screws, so that it is easier to access the loadcells from above
- **1 Load cell, stainless steel, welded, IP68, OIML-approved, class III, 3000 e**
- Can be built in using pit frames (optional)
- **Level indicator and foot screws** to level the balance precisely, fitted as standard, to give the most accurate weighing results
- **Easy access to the junction box** from the top
- **Comfortable adjustment of the weighing bridge** from above



Can be used in any combination, e.g. with all display devices on page 112 ff.

Modell	Weighing range [Max] kg	Read-out [d] g	Verific. value [e] g	Min. load [Min] g	Add. preload kg	Cabel length approx. m	Net weight approx. kg	Weighing plate mm	Price without VAT, ex works €
1 Platform KERN KFP V20									
KFP 6V20M	6	2	2	40	1	2,5	3,7	230x230x100	140,-
KFP 6V20LM	6	2	2	40	2	2,5	4,6	300x240x100	160,-
KFP 15V20M	15	5	5	100	2	2,5	4,6	300x240x100	160,-
KFP 30V20M	30	10	10	200	10	2,5	9,7	400x300x128	180,-
KFP 60V20M	60	20	20	400	35	2,5	9,7	400x300x128	180,-
KFP 60V20LM	60	20	20	400	30	2,5	14,25	500x400x137	220,-
KFP 150V20M	150	50	50	1000	90	2,5	14,25	500x400x137	220,-
KFP 150V20LM	150	50	50	1000	136	2,5	20,75	650x500x142	390,-
KFP 300V20M	300	100	100	2000	186	2,5	20,75	650x500x142	390,-
2 Weighing bridge KERN KFP V20									
KFP 600V20SM	600	200	200	4000	120	5	105	1000x1000 x80	790,-
KFP 600V20M	600	200	200	4000	120	5	175	1500x1250 x80	1100,-
KFP 1500V20SM	1500	500	500	10000	300	5	105	1000x1000 x80	790,-
KFP 1500V20M	1500	500	500	10000	300	5	175	1500x1250 x80	1100,-
KFP 3000V20M	3000	1000	1000	20000	500	5	175	1500x1250 x80	1100,-
KFP 3000V20LM	3000	1000	1000	20000	500	5	195	1500x1500 x80	1220,-
3 Weighing bridge KFP V40									
KFP 1500V40M	1500	500	500	10000	300	5	175	1500x1250 x80	2800,-

Platforms KERN KFD · KFU · KFA

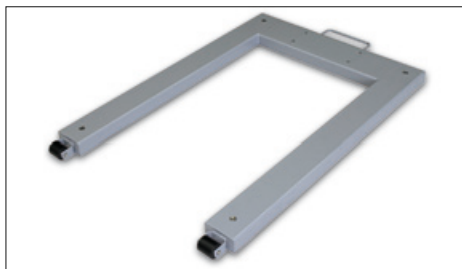


4 KERN KFD

STANDARD OPTION





5 KERN KFU V20/V30

STANDARD OPTION








6 KERN KFA V20

STANDARD OPTION






- Weighing bridge with non-slip steel chequer plate, lacquered, two access ramps integrated, extremely resistant to bending
- Extremely flat construction facilitate access: access height only 45 mm
- 4 Load cells, steel, silicone-coated, IP67, OIML-approved, class III, 3000 e

- Load area: painted steel (V20), stainless steel (V30)
- 4 load cells, steel, silicone-coated, IP67, OIML-R60-approval for verification, class III, 3000e
- 2 rollers and handle for easy transport of the scale
- Accessories see page (KERN UFA)

- Weighing beams and painted steel base
- 4 load cells, steel, silicone-coated, IP67
- Foot screws to level the weighing beams precisely
- Accessories page 107 (KERN UFA)

Can be used in any combination, e.g. with all display devices on page 112 ff.

Modell	Weighing range [Max] kg	Read-out [d] g	Verific value [e] g	Min. load [Min] g	Add. preload kg	Cabel length approx. m	Net weight approx. kg	Weighing plate mm	Price without VAT, ex works €
4 Drive-through scale KERN KFD									
KFD 600V20M	600	200	200	4000	120	5	131	1600x1200x45	1240,-
KFD 600V20LM	600	200	200	4000	120	5	175	1600x1200x45	1340,-
KFD 1500V20M	1500	500	500	10000	300	5	131	1600x1200x45	1240,-
KFD 1500V20LM	1500	500	500	10000	300	5	175	1600x1200x45	1340,-
5 U-shaped weighing bridge KERN KFU									
KFU 600V20M	600	200	200	4000	120	5	41	900x1300x90	660,-
KFU 1500V20M	1500	500	500	10000	300	5	41	900x1300x90	660,-
Edelstahl									
KFU 600V30M	600	200	200	4000	120	5	42	900x1300x90	1290,-
KFU 1500V30M	1500	500	500	10000	300	5	42	900x1300x90	1290,-
6 Weighing beams KERN KFA									
KFA 1500V20	1500	500	-	-	300	5	35	2x 1200x120x100	800,-
KFA 3000V20	3000	1000	-	-	500	5	35	2x 1200x120x100	800,-

12 Pallet truck scales

KERN Model		Page
VHE-N	This model is the ideal entry into the world of mobile weighing	117
VHB	Transportation and weighing in one operation	118
VFS	Pallet truck scale with large display, integrated printer and rechargeable battery pack	119
VHS	Robust pallet truck scale with integrated printer	120
VHT	Professional pallet truck scale with counting function, integrated printer and removable battery pack	121
VHM	Professional pallet truck scale with removable battery pack and EC type approval [M]	121



Weighing and transportation in 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 shortens commissioning times and also avoids the queues, which can occur when you use fixed floor scales.

These mobile weighing solutions are space-saving and deliver reliable weighing results in any location. So, for example in Goods Inwards and Outwards, you can quickly identify differences between given and actual weights. This uncovers any errors in quantities, saves you time and money and thus ensures a very short amortisation period for the original cost of the scale.

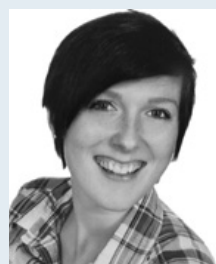
KERN offers a carefully coordinated range from affordable entry level models, via the easy-to-use model with counting function, printer or removable battery pack for uninterrupted functionality, right through to the top level model in verified version.

KERN pallet truck scales are made in robust industrial quality, with high level of protection against dust and water splashes, with high-contrast, easy-to-read displays as well as solid wheels and load rollers with foot brakes - all this helps to give you practical support in your work - day after day.

The KERN three-range pallet truck scale is particularly suitable for a wide range of applications, as it has three levels of accuracy. As the loading increases the scale automatically switches to the next largest range, in terms of both weighing range [Max] as well as readout [d]. In this way, you have a clever combination of a high level of accuracy and the ability to handle heavy loads.

KERN pallet truck scales in robust industrial quality, high level of protection against dust and water splashes, with high-contrast, easy-to-read displays as well as solid wheels and load rollers with foot brakes - 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 DKD calibration certificate (optional). This ensures the high level of accuracy of your pallet truck scale.



Your KERN product specialist will be happy to help:

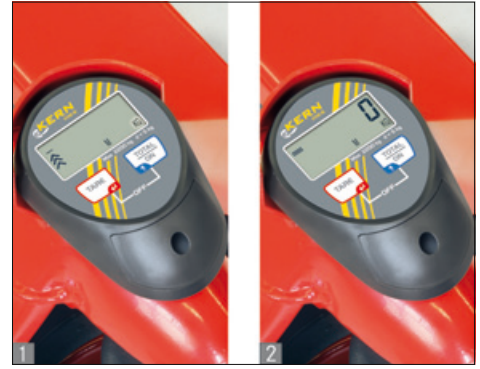
Katharina Queitsch
Product specialist pallet truck scales
 Tel. +49-(0) 74 33-99 33-118
 Fax +49-(0) 74 33-99 33-29118
 katharina.queitsch@kern-sohn.com

Quick-Finder

■ = Standard □ = Option

Read-out	Weighing range	Model	Price € excl. VAT ex works	Page	DAYS ready for shipping	M	CAL EXT	MEMORY	PCS	IP	ACCU	BATT
d	Max	KERN				For an explanation of the symbols, see the flap of the envelope						
0,2/0,5/1 kg	0,2/0,5/2 t	VHT 2T0.2T	1900,-	121	1		■		■	■	■	
1 kg	2 t	VHB 2T1	1430,-	118	1		■			■		■
1 kg	2 t	VFS 2T1	1690,-	119	1		■			■	■	
1 kg	2 t	VHS 2T1	1850,-	120	1		■			■		■
1 kg	2 t	VHM 2T2M	2340,-	121	1	■	■			■	■	
5 kg	2,2 t	VHE 2T5N	990,-	117	1		■			■		■

Pallet truck scale KERN VHE-N



This model is the ideal entry into the world of mobile weighing

Features

- **Very manoeuvrable** thanks to its compact construction and low weight
- **Particularly robust** because the sensitive components have been relocated from the load fork into the protected housing area. It is therefore also ideal for heavy applications in the production area and on board lorries
- **A Display device IP65.** Protected against dust and water splashes
- **B Load fork IP67.** Load cells are protected against dust and water, temporary use in wet areas is possible
- **Low height of the loading forks** making it easy to work with low pallets
- **Pivot range 204°**
- **Castors:** Solid rubber on aluminium rims
- **Load rollers:** Polyurethane
- **Specially constructed for general checkweighing**, e.g.: plausibility check at goods receiving, establishing shipping weights, avoiding overloads, safety checks

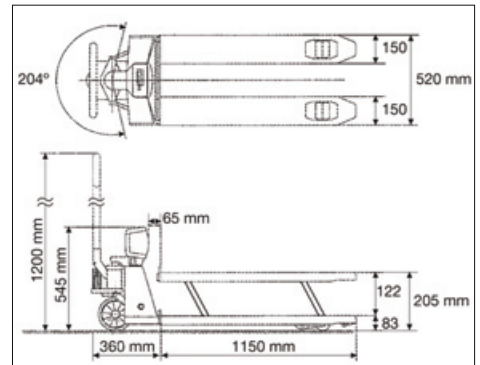
Operation:

- 1 Switch on and then pump up the load fork to the reference height
- 2 Tare off
- 3 Release the load fork and position the goods to be weighed on it
- 4 Weighing: Pump the load fork up to the reference height

- **Ready for use:** Batteries included (2 x 1.5 V AA). AUTO-OFF function to preserve the batteries. Operating time approx. 1 year / approx. 3000 weighings. Charge condition indicator on display

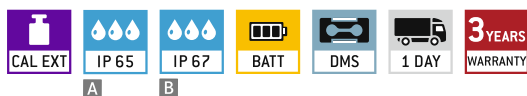
Technical data

- Large LCD display, digit height 18 mm



Note: Dispatch complete on pallet. Please ask for dimensions, gross weight, shipping costs

STANDARD



OPTION



Model	Weighing range [Max] kg	Readout [d] kg	Net weight approx. kg	Permissible ambient temperature °C	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
						DKD KERN 963-131	€ 200,-
KERN VHE 2T5N	2200	5	60	-10 °C / 40 °C	990,-	963-131	200,-

Pallet truck scale KERN VHB



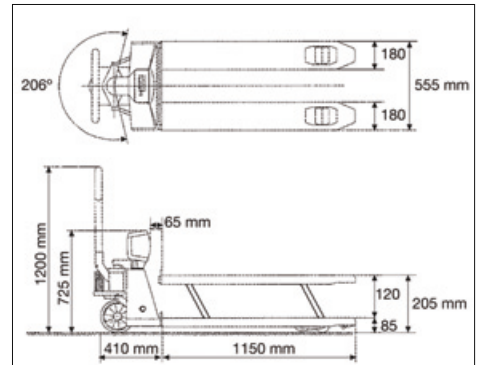
Transportation and weighing, with a memory for a container weight

Features

- **PRE-TARE function** for manual subtraction of a known container weight, e. g. pallet cages, pallets etc., which can be saved
- **1 Display device IP65.** Protected against dust and water splashes
- **2 Load fork IP67.** Load cells are protected against dust and water, temporary use in wet areas is possible
- **Pivot range 206°**
- **Castors:** Solid rubber on aluminium rims
- **3 Load rollers:** Tandem tyres so that you can get over thresholds and obstacles more easily. Material: Polyurethane
- **Ready for use:** Batteries included (4 x 1.5 V AA). AUTO-OFF function to preserve the batteries. Operating time approx. 80 h / 1700 weighings. Charge condition indicator on display

Technical data

- Large LCD display, digit height 28 mm



Note: Dispatch complete on pallet. Please ask for dimensions, gross weight, shipping costs

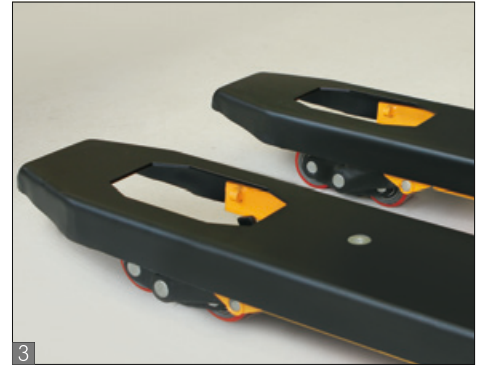
12

STANDARD

OPTION

Model	Weighing range	Readout	Net weight approx.	Permissible ambient temperature °C	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
						DKD KERN	€
KERN VHB 2T1	[Max] kg 2000	[d] kg 1	kg 120	-10 °C / 40 °C	1430,-	963-131	200,-

Pallet truck scale KERN VFS



Pallet truck scale with large display, integrated printer and rechargeable battery pack

Features

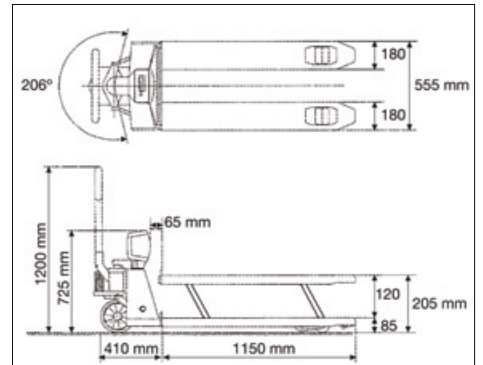
- **PRE-TARE function** for manual subtraction of a known container weight, e. g. pallet cages, pallets etc., which can be saved
- **1 Display device IP65:** Protected against dust and water splashes
- **2 Load fork IP67.** Load cells are protected against dust and water, temporary use in wet areas is possible
- **Pivot range 180°**
- **Castors:** Solid rubber on aluminium rims
- **Load rollers:** Tandem tyres so that you can get over thresholds and obstacles more easily. Material: Polyurethane
- **Rechargeable battery pack internal,** standard, operating time approx. 60 h, charging time approx. 12 h
- **1 Integrated thermal printer,** standard. Printout with date and time. Width of paper 58 mm, 20 characters/line, print-out speed up to 45 mm/sec, temperature range 0 °C / +40 °C

Technical data

- Large backlit LCDdisplay, digit height 52 mm

Accessories

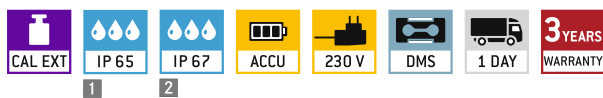
- **Thermal receipt rolls** (10 pieces), width 56 mm, Ø 51 mm, KERN RFS-A10, € 35,-



Note: As standard, the unit is dispatched without the shaft and display fitted. The shaft and display can be fitted at our factory for an additional cost, delivery + 2 working days, KERN VFS-M01, € 150,- Please state when ordering

1 Dispatch complete on pallet. Please ask for dimensions, gross weight, shipping costs

STANDARD



OPTION



Model	Weighing range	Readout	Net weight approx.	Permissible ambient temperature °C	Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
						DKD KERN	€
KERN VFS 2T1	[Max] kg 2000	[d] kg 1	kg 126	-10 °C / 40 °C	1690,-	963-131	200,-

Pallet truck scale KERN VHS



Versatile pallet truck scale with large pivot range and printer

Features

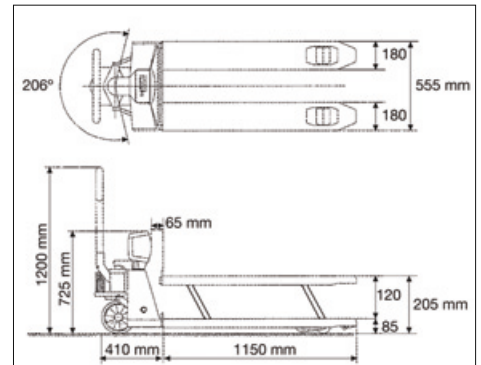
- **PRE-TARE function** for manual subtraction of a known container weight, which can be saved
- **1 Display device IP65.** Protected against dust and water splashes
- **2 Load fork IP67.** Load cells are protected against dust and water, temporary use in wet areas is possible
- **Pivot range 206°**
- **Castors:** Solid rubber on aluminium rims
- **Load rollers:** Tandem tyres so that you can get over thresholds and obstacles more easily. Material: Polyurethane
- **4 Integrated thermal printer,** standard. Width of paper 58 mm, 20 characters/line, print-out speed up to 45 mm/sec, temperature range 0 °C / +40 °C
- **Ready for use:** Batteries included (4 x 1.5 V AA). AUTO-OFF function to preserve the batteries. Operating time approx. 80 h / 1700 weighings. Charge condition indicator on display

Technical data

- Large LCD display, digit height 28 mm

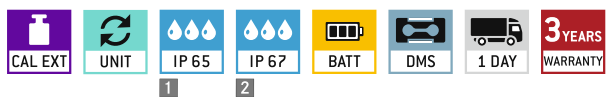
Accessories

- **Thermal receipt rolls** (10 pieces), KERN VHS-A10, € 35,-



Note: Dispatch complete on pallet. Please ask for dimensions, gross weight, shipping costs

STANDARD



OPTION



Model	Weighing range	Readout	Net weight approx.	Permissible ambient temperature	Price excl. of VAT ex works	Option	
						DKD Calibr. Certificate	
KERN VHS 2T1	[Max] kg 2000	[d] kg 1	kg 125	°C -10 °C / 40 °C	€ 1850,-	DKD KERN 963-131	€ 200,-

Pallet truck scales KERN VHT · VHM



Illustration: KERN VHM

Pallet truck scale with removable battery, alternatively with piece-counting function (VHT) or EC type approval (VHM)

Features

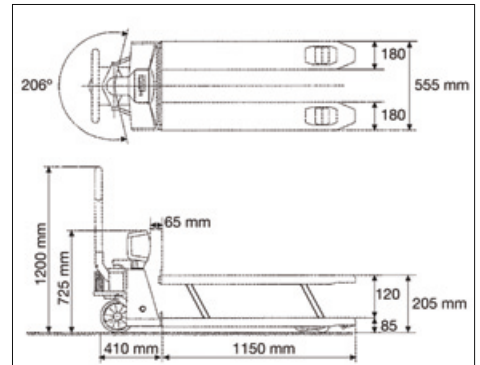
- **PRE-TARE function** for manual subtraction of a known container weight
- **1 Display device IP65.** Protected against dust and water splashes
- **2 Load fork IP67.** Load cells are protected against dust and water, temporary use in wet areas is possible
- **Pivot range 206°**
- **Castors:** Solid rubber on aluminium rims
- **3 Load rollers:** Tandem tyres so that you can get over thresholds and obstacles more easily. Material: Polyurethane
- **4 Rechargeable battery pack internal,** standard, with practical handle for quick replacement, operating time up to 35 h, charging time approx. 6 h, can be reordered, KERN VHT-A01, € 240,-

KERN VHT

- **Piece-counting function:** Particularly practical, when large quantities of a weighed item must be quickly counted into and out of a container, see page 79
- **Integrated thermal printer,** standard. Printed with date and time. Width of paper 58 mm, 20 characters/line, print-out speed up to 45 mm/sec, temperature range 0 °C / +40 °C
Accessories: **Thermal receipt rolls** (10 pieces), KERN VHS-A10, € 35,-

KERN VHM, see larger picture

- **Verified pallet truck scale,** so can be used in commercial trade situations. Please observe legal conditions and relevant recommendations for use



Technical data

- Large LCD display, digit height 18 mm
- Net weight approx. 125 kg
- Permissible ambient temperature -10 °C / 40 °C

Note: Dispatch complete on pallet. Please ask for dimensions, gross weight, shipping costs

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] kg	Readout [d] kg	Verific. value [e] g	Minimum load [Min] kg	Min. piece weight [PW min] g/piece	Price excl. of VAT ex works €	Options			
							Verification	€	DKD Calibr. Certificate	€
KERN							KERN		DKD KERN	
Triple-range balance (T=Triple) switches automatically to the next largest weighing range [Max.] and readout [d].										
VHT 2T0.2T *	200 500 2200	200 500 1000	-	-	500	1900,-	-	-	963-131	200,-
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use.										
VHM 2T2M	2000	2000	2000	40	-	2340,-	965-231	200,-	963-131	200,-

! * ONLY WHILE STOCKS LAST

13 Hanging scales / crane scales

KERN Model		Page
HDB-N CH	Convenient and always handy	123
HCB HCN	The handy scales for higher loads, also with IP65	124
HFB	The professional alternative up to 600 kg with rear-facing second display	125
HUS	Compact up to 600 kg	126
HUM	Ideal for the industry, up to 3 t	127
HFM	High resolution industrial crane scale up to 10 t	128



Your KERN product specialist will be happy to help:

Julia Kostjuk
Product specialist
Hanging scales / crane scales
Tel. +49-(0) 74 33-99 33-141
Fax +49-(0) 74 33-99 33-29141
kostjuk@kern-sohn.com

Quick-Finder

■ = Standard □ = Option

Read-out d	Weighing range Max	Model KERN	Price € excl. VAT ex works	Page	 DAYS ready for shipping									For an explanation of the symbols, see the flap of the envelope											
														5 g	5 kg	HDB 5K5N	50,-	123	1		■		■		
10 g	10 kg	HDB 10K10N	50,-	123	1		■		■				■												
10 g	20 kg	HCB 20K10	105,-	124	1		■		■				■												
20 g	15 kg	CH 15K20	60,-	123	1				■				■												
20 g	50 kg	HCB 50K20	115,-	124	1		■		■				■												
50 g	20 kg	HCB 20K50	85,-	124	1		■		■				■												
50 g	20 kg	HCN 20K50IP	110,-	124	1		■		■	■			■												
50 g	50 kg	CH 50K50	65,-	123	1				■				■												
50 g	99 kg	HCB 99K50	99,-	124	1		■		■				■												
50 g	150 kg	HFB 150K50	320,-	125	1		■						■												
50 g	150 kg	HUS 150K50	330,-	126	1		■						■												
100 g	50 kg	CH 50K100	55,-	123	1				■				■												
100 g	50 kg	HCB 50K100	90,-	124	1		■		■				■												
100 g	50 kg	HCN 50K100IP	115,-	124	1		■		■	■			■												
100 g	200 kg	HCB 200K100	110,-	124	1		■		■				■												
100 g	300 kg	HFB 300K100	340,-	125	1		■						■												
100 g	300 kg	HUS 300K100	350,-	126	1		■						■												
100 g	1 t	HFM 1T0.1	630,-	128	1		■						■												
200 g	100 kg	HCB 100K200	110,-	124	1		■		■				■												
200 g	100 kg	HCN 100K200IP	120,-	124	1		■		■	■			■												
200 g	600 kg	HFB 600K200	340,-	125	1		■						■												
200 g	600 kg	HUS 600K200	370,-	126	1		■						■												
500 g	200 kg	HCB 200K500	99,-	124	1		■		■				■												
500 g	200 kg	HCN 200K500IP	115,-	124	1		■		■	■			■												
500 g	1 t	HUM 1000K500	590,-	127	1		■			■			■												
500 g	3 t	HFM 3T0.5	650,-	128	1		■						■												
500 g	5 t	HFM 5T0.5	850,-	128	1		■						■												
1000 g	3 t	HUM 3000K1000	690,-	127	1		■						■												
1000 g	10 t	HFM 10T1	1160,-	128	1		■						■												

Hanging scales KERN HDB-N · CH



KERN HDB-N



KERN CH



Convenient, economical and always handy

Features

- Ideal for rapid checking in goods receiving and shipping
- Also essential in the private sector for determining the weight of fish, game, fruits, bicycle parts, cases etc.
- **Data hold function:** For easy reading of the weight, the display can be „frozen“ in different ways. Either automatically when the weighing value remains unchanged or manually by pressing the Hold key

Technical data

HDB-N:

- **Hook (stainless steel)**, can be hinged
- **Ready for use:** Batteries included, 2 x 1.5 V AAA, operating time approx. 180 h, AUTO-OFF function to preserve the battery, Pallet truck scale with removable battery, alternatively with piece-counting function (VHT) or EC type approval (VHM) can be switched off
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C / 35 °C

CH:

- **Hook (stainless steel)**
- **Tape measure**, extractable, length approx. 100 cm
- **Peak load display** (peak hold), measuring frequency 5 Hz
- **Ready for use:** 9 V Block included, operating time approx. 20 h. AUTO-OFF function to preserve the batteries, can be switched off
- Further weighing units: kg, lb, N
- Permissible ambient temperature 5 °C / 35 °C

STANDARD



OPTION



Model	Weighing range [Max] kg	Read-out [d] g	LCD display, digit height mm	Dimensions housing WxDxH mm	Height with hook mm	Net weight approx. kg	Price excl. of VAT ex works €	Option	
								DKD Calibr. Certificate	
								DKD KERN	€
HDB 5K5N	5	5	12	70x25x105	195	0,15	50,-	963-127	65,-
HDB 10K10N	10	10	12	70x25x105	195	0,15	50,-	963-128	80,-
CH 15K20	15	20	11	90x30x175	270	0,25	60,-	963-128	80,-
CH 50K50	50	50	11	90x30x175	270	0,25	65,-	963-128	80,-
CH 50K100	50	100	11	90x30x175	270	0,25	55,-	963-128	80,-

Hanging scales KERN HCB · HCN



KERN HCB



KERN HCN



The handy scales for higher loads, also with IP65

Features

- Ideal for rapid checking in goods receiving and shipping
- Also essential in the private sector for determining the weight of fish, game, fruits, bicycle parts, cases etc.
- **Data hold function:** For easy reading of the weight, 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

Technical data

- LCD display, digit height 12 mm
- **HCB:**
 - **Ready for use:** 3 x 1.5 V AA standard, operating time approx. 300 h
- **HCN:**
 - Housing stainless steel, IP65 protection
 - **Second display** on the rear of the balance
 - **Ready for use:** batteries (2 x 1.5 V AA) standard, operating time approx. 200 h

Accessories

- **Hook (stainless steel)** standard, aperture approx. 25 mm, can be reordered, KERN HCB-A02, € 30,-
- **Snap link (stainless steel) with safety catch** standard, aperture approx. 15 mm, can be reordered, KERN HCB-A01, € 30,-

STANDARD

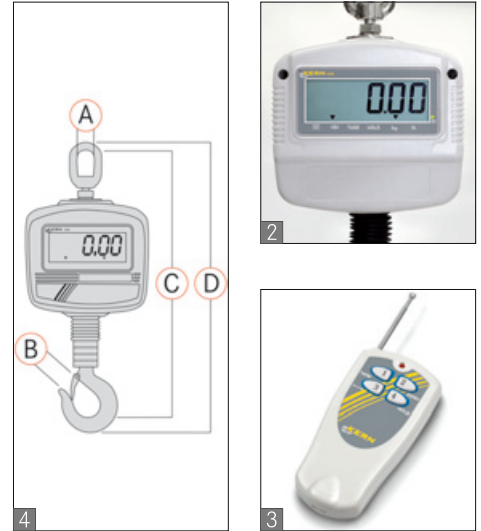


OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Dimensions housing WxDxH mm	Height with snap link and hook mm	Net weight approx. kg	Price excl. of VAT ex works €	Option	
							DKD Calibr. Certificate	€
KERN								
HCB 20K10	20	10	80x45x150	290	0,4	105,-	963-128	80,-
HCB 50K20	50	20	80x45x150	290	0,4	115,-	963-128	80,-
HCB 20K50	20	50	80x45x150	290	0,4	85,-	963-128	80,-
HCB 99K50	99	50	80x45x150	290	0,4	99,-	963-129	95,-
HCB 50K100	50	100	80x45x150	290	0,4	90,-	963-128	80,-
HCB 100K200	100	200	80x45x150	290	0,4	110,-	963-129	95,-
HCB 200K100	200	100	80x45x150	290	0,4	110,-	963-129	95,-
HCB 200K500	200	500	80x45x150	290	0,4	99,-	963-129	95,-
stainless steel								
HCB 20K50IP	20	50	95x55x175	315	0,8	110,-	963-128	80,-
HCB 50K100IP	50	100	95x55x175	315	0,8	115,-	963-128	80,-
HCB 100K200IP	100	200	95x55x175	315	0,8	120,-	963-129	95,-
HCB 200K500IP	200	500	95x55x175	315	0,8	115,-	963-129	95,-

Crane scale KERN HFB



The professional alternative up to 600 kg with rear-facing second display

Features

- **1** With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments) and EN 61010-1 (Electrical safety)
- **3** **Radio remote control** standard. Range approx. 20 m. All functions can be selected (excl. ON/OFF). WxDxH 48x10x95 mm. Batteries included (2 x 1,5 V AAA)
- **High mobility:** thanks to battery operation, compact construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department, ...)
- **2** **Second display** on the rear of the balance
- **Hook with safety catch**, revolving
- Shackle and hook connection made of nickel-plated steel
- **Adjusting program CAL**, external test weights at an additional price, see page 133
- **Rechargeable battery pack internal**, standard, operating time approx. 40 h, charging time approx. 14 h with mains adapter, charge indicator visual using LED
- **Data hold function:** When the weighing value remains unchanged the weight indicated on the display is automatically „frozen“ until the HOLD key is pressed
- **Tare:** Resets the display to „0“ when there is a load on the scale. Now removed or added loads are directly displayed

Technical data

- Superior display size: digit height 25 mm. Bright backlight for easy reading of weight, even from a distance
- Dimensions housing WxDxH 163x126x158.5 mm
- Precision: 0.2 % from [Max]
- Permissible ambient temperature 0 °C / 40 °C

STANDARD



OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Net weight approx. kg	4 Dimensions				Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
				A mm	B mm	C mm	D mm		DKD KERN	€
KERN HFB 150K50	150	50	3,2	26	25	358	390	320,-	963-129	95,-
KERN HFB 300K100	300	100	3,2	26	25	358	390	340,-	963-129	95,-
KERN HFB 600K200	600	200	3,2	26	25	358	390	340,-	963-130	150,-

Crane scale KERN HUS



Compact up to 600 kg

Features

- **1** With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments) and EN 61010-1 (Electrical safety)
- **Hook with safety catch**, forged steel, nickel-plated, revolving
- **Loop forged steel**, nickel-plated
- **Adjusting program CAL**, external test weights at an additional price, see page 133
- **Rechargeable battery pack internal**, standard, operating time approx. 120 h, charging time approx. 8 h (internal charging with mains adapter). Selectable: AUTO-OFF function or permanent operation. Charge condition indicator using three-colour LED

- **2 Infrared remote control** standard. Range approx. 2,5 m. All functions can be selected. WxDxH 120x60x15 mm. Batteries included, 2 x 1,5 V AAA
- **Data hold function**: When the weighing value remains unchanged the weight indicated on the display is automatically „frozen“ until the HOLD key is pressed
- **Tare**: Resets the display to „0“ when there is a load on the scale. Now removed or added loads are directly displayed

Technical data

- Backlit LCDdisplay, digit height 23 mm
- Dimensions housing WxDxH mm
- Total height from loop to hook 380 mm (KERN HUS 600K200: 400 mm)
- Precision: 0.2 % from [Max]
- Net weight approx. 4 kg
- Permissible ambient temperature 0 °C / 40 °C

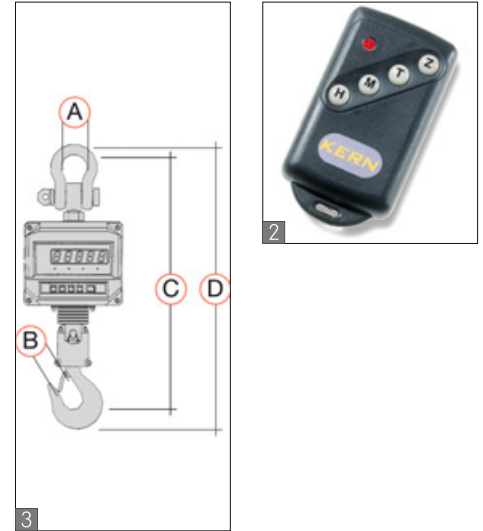
13

STANDARD						OPTION	

Model	Weighing range [Max] kg	Read-out [d] g	3 Dimensions				Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
			A mm	B mm	C mm	D mm		DKD KERN	€
KERN HUS 150K50	150	50	24	14	330	380	330,-	963-129	95,-
KERN HUS 300K100	300	100	24	14	330	380	350,-	963-129	95,-
KERN HUS 600K200	600	200	24	14	350	400	370,-	963-130	150,-

ONLY WHILE STOCKS LAST

Crane scale KERN HUM



Ideal for the industry, up to 3 t

Features

- With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments) and EN 61010-1 (Electrical safety)
- **Robust metal housing**
- **Hook with safety catch**, revolving
- **Adjusting program CAL**, external test weights at an additional price, see page 133
- **Rechargeable battery pack internal**, standard, operating time approx. 80 h, charging time approx. 8 h (internal charging with mains adapter). Selectable: AUTO-OFF function or permanent operation

- **Data hold function:** When the weighing value remains unchanged the weight indicated on the display is automatically „frozen“ until the HOLD key is pressed
- **Tare:** Resets the display to „0“ when there is a load on the scale. Now removed or added loads are directly displayed
- **Radio remote control** standard. Range approx. 25 m. All functions can be selected (excl. ON/OFF). WxDxH 65x40x15 mm. Batteries included (1x12 V 23 A)

Technical data

- Luminescent LED Segmente display, digit height 25 mm
- Precision: 0.2 % from [Max]
- Permissible ambient temperature 0 °C / 40 °C

STANDARD



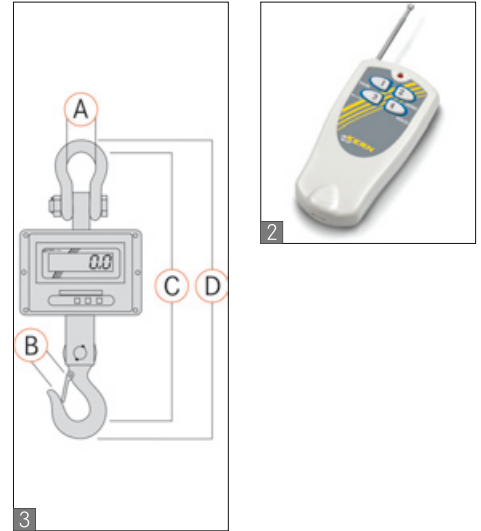
OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Net weight approx. kg	Dimensions housing WxDxH mm	3 Dimensions				Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
					A	B	C	D		DKD KERN	€
					mm	mm	mm	mm			
KERN HUM 1000K500	1000	500	16	210x228x180	56	42	550	620	590,-	963-130	150,-
KERN HUM 3000K1000	3000	1000	18	210x228x180	73	45	580	650	690,-	-	-

ONLY WHILE STOCKS LAST

Crane scale KERN HFM



High resolution industrial crane scale up to 10 t

Features

- **TÜV certification**: With the TÜV certification mark, the scale meets the requirements of the standard EN 13155 (Non-fixed load lifting attachments) 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 applications
- **High mobility**: thanks to battery operation, compact construction and low weight, it is suitable for use in several locations (production, warehouse, dispatch department, ...)
- **Adaptation to unstable environmental conditions** by changing the readout
- **Hook with safety catch**, revolving

- **Rechargeable battery pack internal**, standard, operating time approx. 50 h, charging time approx. 14 h with mains adapter, charge indicator visual using LED
- **Adjusting program CAL**, external test weights at an additional price, see page 133 ff.
- **Data hold function**: When the weighing value remains unchanged the weight indicated on the display is automatically „frozen“ until the HOLD key is pressed
- **Tare**: Resets the display to „0“ when there is a load on the scale. Now removed or added loads are directly displayed
- **Radio remote control** standard. Range up to 20 m. All functions can be selected (excl. ON/OFF). WxDxH 48x10x95 mm. Batteries included, 2 x 1,5 V AAA

Technical data

- Superior display size: digit height 30 mm. Luminescent LED display for easy reading of the weight, even from a distance or in poor lighting conditions
- Precision: 0.2 % from [Max]
- Permissible ambient temperature 0 °C / 40 °C

13

STANDARD



OPTION



Model	Weighing range [Max] kg	Read-out [d] g	Net weight approx. kg	Dimensions housing WxDxH mm	3 Dimensions				Price excl. of VAT ex works €	Option DKD Calibr. Certificate	
					A	B	C	D		DKD KERN	€
					mm	mm	mm	mm			
HFM 1T0.1	1000	100	15	270x175x200	80	40	540	610	630,-	963-130	150,-
HFM 3T0.5	3000	500	16,5	270x175x200	75	50	540	610	650,-	on request	
HFM 5T0.5	5000	500	25	300x190x230	75	50	650	730	850,-	on request	
HFM 10T1	10000	1000	37	300x190x230	100	60	750	840	1160,-	on request	

14 Accessories



KERN Model	Page
Second data interface RS-232 CFS-A04	132
Matrix needle printer 911-013	130
Thermal printer YKB-01N	130
Thermal statistics printer YKS-01	130
Gloves for test weights 317-280, 317-290	151
Ioniser to neutralise electrostatic charge YBI-01	132
Power supply adapter set	132
Tweezers 315-242, 315-243, 315-245, 335-240	151

KERN Model	Page
RS-232 Ethernet adapter YKI-01	131
Plummet 152-532	10
Interface cable	131
Signal lamp CFS-A03	131
Software Balance Connection SCD-4.0	131
Dust brush 318-270	151
Tare pan RFS-A02	132
Universal carrying case for scales MPS-A07	132
Weighing table YPS-01	132

Printer



KERN 911-013

STANDARD



Matrix needle printer

To print the weights on normal paper, which is ideal for long-term archiving.

Technical data:

- Needle print
- Speed: 0,75 lines/sec
- max. 40 characters per line
- Paper stripes: 57 mm wide
- Operation via mains adapter 230V/50Hz (standard)
- Dimensions:
WxDxH 105x180x90 mm

- Interface cable not included with delivery
- Please state your balance model when ordering, so that the printer can be preconfigured in the factory to suit your balance.

Price printer without interface cable, KERN 911-013, € 330.00

Accessories:

Paper rolls (10 pieces), KERN 911-013-010, € 35.00



KERN YKB-01N

STANDARD



Thermal printer

For printing results, recipes, quantities etc. or for GLP record keeping of balance adjustment with date and time print. Language versions: D, GB, F.

Technical data:

- Thermal print
- Speed: 0,75 lines/sec
- max. 40 characters per line
- Paper stripes: 112 mm wide
- Operation via mains adapter: 230 V/50 Hz (standard)

- Dimensions:
WxDxH 165x140x50 mm
 - Interface cable not included with delivery
- Please state your balance model when ordering, so that the printer can be preconfigured in the factory to suit your balance.

Price printer without interface cable, KERN YKB-01N, € 255.00

Accessories:

Paper rolls (10 pieces), YKB-A10, € 35.00



KERN YKS-01

STANDARD



Statistics thermal printer

For printing results, recipes, etc. or for GLP record keeping of balance adjustment with date and time print. Numerator; with statistical functions such as count and total of all measurements, minimum and maximum values of the main unit, range (Max-Min). Average value, standard deviation, available units: mg, g, kg, pcs. Language versions: D, GB, F.

Technical data:

- Thermal print
- Speed: 0,75 lines/sec
- max. 40 characters per line
- Paper strip: 112 mm wide

- Operation via mains adapter: 230 V/50 Hz (standard)
 - Dimensions:
WxDxH 165x140x50 mm
 - Interface cable not included with delivery
- Please state your balance model when ordering, so that the printer can be preconfigured in the factory to suit your balance.

Price printer without interface cable, KERN YKS-01, € 390.00

Accessories:

Paper rolls (10 pieces), KERN YKB-A10, € 35.00

001:	0.366 g
002:	0.363 g
003:	0.357 g
004:	0.354 g
18/05/11	15:01
n	004
Σ	00001.44 g
x	00000.31 g
σ^{n-1}	00000.14
σ^n	00000.44
Min	00000.00 g
Max	00000.36 g
R	00000.36 g

- ← Measured value 001
- ← Measured value 002
- ← Measured value 003
- ← Measured value 004
- ← Date / Time
- ← Number of test results
- ← Sum of all test results
- ← Mean value of all test results
- ← Standard deviation of the basic totality
- ← Standard deviation of a random sample
- ← Minimum value of the basic totality
- ← Maximum value of the basic totality
- ← Span of the basic totality (maximum value – minimum value)

Printout sample KERN YKS-01: Statistics

➔ **Individual header data:** If noted on the balance, for printers **KERN 911-013, YKB-01N** the free software **KERN SHM-01** (see www.kern-sohn.com) can be used to print 4 header lines on the printout. Compatible models: KERN 440, DE, FCB, FKB-A, PCB, PCD.

Accessories

Interface cable for RS-232

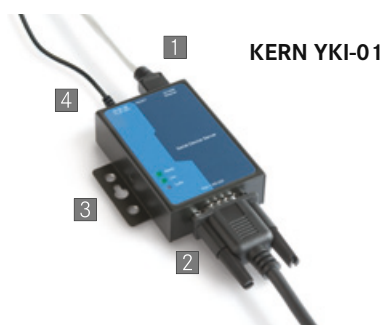
for direct connection to a printer or PC, cable length approx. 1.5 m.
The interface parameters can be set using the balance keypad.

Printer →	YKB-01N + PC + 911-013 Order No.	YKS-01 Order No.	Cable Price € without VAT ex works
440, AL...-A, ALT-B, CDE, DBS, DLB, DE-D, DLT, EMB-V, FCB, FKB-A, KMB-TM, KMS-TM, KMT-TM, NDE, PCB, PCD, PKS, PKP, PKT, 572, 573, CDS, CKE, DS, FKB, FKT, KB, IKT, PL...-A, PL...-F, PLT		572-926	46.00
BFB, BFN, CFS, CPB-N, GAB-N, IFB, KFB-TM, KFN-TM, NFB, PFB, SFB, UF...		CFS-A01	
EW, EW-N, EG-N, PE... Printer connection (unidirectional)		474-926	
ABT, PBS, PBJ, ABS/ABJ (year of production 2000-2012)		770-926	
AES-N, AEJ-NM, BTEP, ILJ, ILS KME, NTEP, PLJ-N, UTEP, UTEP		MLB-A05	
BFS, IFS, KFS-T, MLB, MLS, ILS, ILJ	MLB-A05	-	75.00
ABJ-NM, ABS-N		ACS-A01	



Note:

The interface cable is **free of charge** if you purchase the balance and printer together.



Ethernet adapter KERN YKI-01

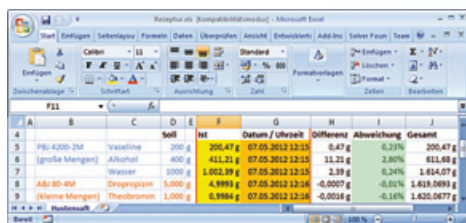
Adapter to connect balances, force measuring devices etc. with an RS 232 interface ² to an IP-based Ethernet network ¹. The adapter allows direct integration of measuring devices into most company networks, with automatic configuration using DHCP or statistical IP allocation. You can access the current measuring data at any time over the whole network, without having to use additional cables. The adapter supports a wide range of configuration options using the enclosed administration software or through the web interface. The driver delivered with the goods allows you to access the measuring device with existing, non-network-compatible applications using a virtual COM port.

Compatible with **KERN BalanceConnection software**. Suitable for wall mounting ³, DIN track mount ³ or free-standing. Scope of supplies: RS 232 Ethernet adapter with 1x Port RS 232 ¹, mains adapter ⁴, CD (driver, software, operating instructions), adhesive feet.

Note: To connect to your network, you will need information from your network administrator. You should discuss connecting your device into your network with the administrator before you place your order.

KERN YKI-01, € 390.00

Software Balance Connection



- Interface cable included. Please specify balance model when ordering (see interface cable table)

Benefits:

- Typing errors during manual transfer, for example, are avoided
- GLP-compliant lab software

KERN SCE-4.0, € 150.00

2nd RS-232 data interface,

separate Y cable, e.g. for simultaneous connection of a printer, signal lamp etc. Suitable for BFB, CPB-N, CFS, GAB-N, IFB, KFB-TM, NFB, UFA, UFB

KERN CFS-A04, € 35.00

For the direct transmission of balance data to Windows applications (operating systems XP, Vista, Windows 7)

- Transfer via RS-232 to the PC, e.g. to MS Excel
- Transfer at the touch of a key or on a time-controlled basis
- Date and time can be given at any time
- The interface protocols for KERN balances are already predefined



KERN CFS-A03

Signal lamp

for visual support of weighing with tolerance range. Three-colour LED, red, green, yellow. Suitable for series GAB-N, CPB-N, IFB, NFB, KFB-TM (on request: BFB, UFB). Total dimensions WxDxH 100x180x300 mm,

KERN CFS-A03, € 250.00



KERN YBI-01



Ioniser to neutralise electrostatic charge

Features:

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 the mount 1 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 2.

Technical data:

- **Neutralisation:** ± 20V
- **Discharge of ozone:** 0,04 ppm/h
- **Dimensions:** WxDxH 97x53x31 mm, WxDxH 150x150x90mm incl. mount
- **Net weight:** ca. 0,11 kg ca. 0,55 kg incl. mount
- **Mains connection:** 110-230V/50Hz, AC power supply, 12V DC output

KERN YBI-01, € 1 190.00

STANDARD



KERN YPS-01

Weighing table

Features:

Accurate measuring results require stable working conditions! The KERN YPS-01 weighing table has been constructed to absorb vibrations and oscillations, which would otherwise distort the weighing result.

The YPS-01 weighing table consists of:

- 1 Polished marble plate (36 kg) as integrated working surface, positioned on absorbing rubber components
- Work table with aluminium profile frame and height-adjustable feet

Technical data:

- **Dimensions:** WxDxH 800x600x782 mm
- **Dimensions marble plate:** WxD 400x450 mm
- **Net weight:** ca. 54 kg

1 Dispatch complete on pallet. Please ask for dimensions, gross weight, shipping costs.

KERN YPS-01, € 850.00



KERN MPS-A07

Sturdy transport case

for the safe transport and storage of series EOE, EOB scales with weighing plate size ≤ 315x305mm without stand; inner dimensions WxDxH 425x315x65 mm,

KERN MPS-A07, € 95.00



KERN RFS-A02

Tare pan

made from stainless steel. Ideal for weighing loose screws, small parts, etc., fruit, vegetables, cheese, etc. BxTxH 370x240x20 mm, Net weight approx. 524 g,

KERN RFS-A02, € 45.00



KERN YKA-02

Power supply adapter set

from standard EU to UK/US/AUS/CH etc. Four off. Ideal for devices with Class II protection (without earth). Ideal for Euro moulded plug,

KERN YKA-02, € 25.00

15 Test weights

Weights yesterday and today

Weights have always been used to carry out weighing procedures. This original purpose has almost disappeared. Today, weights are used almost exclusively for adjusting and testing = calibration of electronic balances. We therefore call them „Test weights“ as this is their purpose of use.

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, doing it right!

The internationally valid OIML Directive R111-2004 classifies test weights hierarchically into 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.

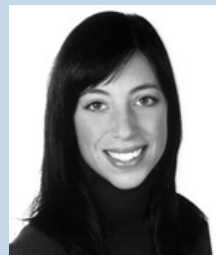
As the appropriate test weight is only classed as checking equipment to ISO 9000ff if it has the relevant proof of accuracy, all KERN test weights come with an appropriate DKD calibration certificate (optional). For further details, see the DKD calibration service section on page 153.

KERN offers you the appropriate test weight package for your balance, consisting of the test weight, box and → **DKD calibration** certificate, as proof of its accuracy ... the best pre-requisite for proper balance calibration.



Test weights: classes of accuracy E, F, M and their general relation to the types of balances:

- E2** the most accurate test weights for high resolution analytical balances of verification class I $\geq 100,000 e$
- F1** Test weights for analytical balances/ precision balances for verification class I/ II, $\leq 100,000 e$
- F2** Test weights for precision balances of verification class II, $\leq 30,000 e$
- M1** Test weights for industrial and commercial balances of verification class III, $\leq 10,000 e$



Your KERN product specialist will be happy to help:

Marietta Diener
Product specialist Test weights
 Tel. +49-(0) 7433-9933-167
 Fax +49-(0) 7433-9933-29167
 diener@kern-sohn.com

→ See the glossary, page 158/159

Information about your KERN test weights

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Test weights

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Selection of the appropriate test weight for your balance:

Correctly selected test weights with DKD calibration certificate are the pre-requisite for ensuring that your balances are not only correctly adjusted, but also correctly calibrated. Scheduled testing of your balances with such test weights helps to guarantee your quality requirements and to maintain your quality targets.

Here's how you find the right test weight for your balance:

A balance can never be more accurate than the test weight used to adjust it, it depends on its tolerance.

Accuracy of the test weight: Should correspond to the readout d of the balance, rather than something better.

Nominal weight value: This is shown in adjust mode „CAL“ in the balance display. Given the 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 \pm mg“ at the respective weight and table at page 135.

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 with approx. ± 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 ± 10 mg tolerance and 2 kg weight size, stand in accuracy class F1. KERN-No 327-72, see page 140.

Exception, analytical balances (readout $d \leq 0,1$ mg):

E1 test weights are recommended. Depending on the safety requirements, E2 test weights with a DKD calibration certificate will also be sufficient.

From brass to stainless steel - the right test weight for every situation



Test weight → Features ↓	Cylindrical shape with lifting knob, polished stainless steel	Compact shape with carrying grip, polished stainless steel	Cylindrical shape with lifting knob, polished stainless steel or nickel-plated and polished brass	Compact shape with carrying grip, finely turned stainless steel	Cylindrical shape with lifting knob, finely turned stainless steel	Cylindrical shape with lifting knob, finely turned brass
conforms to OIML R111	yes	yes	yes	no	yes	yes
Available classes	E1, E2	E2, F1	F1	adjusted to F1 error limit class	F2, M1	M1, M2, M3
Upper surface	polished	polished	polished	finely turned	finely turned	finely turned
Material	Stainless steel	Stainless steel	Stainless steel or nickel-plated brass	Stainless steel	Stainless steel	Brass
Adjusting cavity	no	no	yes	yes, from 20 g	yes, from 20 g	yes, from 20 g
Verification possible	yes	yes	yes	no	yes	yes, except M2
Checking equipment for verification purposes	approved	approved	approved	not approved	approved	approved
Ideal as checking equipment in QM systems (e.g. ISO 9000 ff)	yes	yes	yes	yes	yes	yes
Benefits	<ul style="list-style-type: none"> • High-quality test weight for analytical and precision balances • Highly-refined upper surface • Optimum shape of the top for good grip 	<ul style="list-style-type: none"> • Affordable test weight for analytical and precision balances • Highly-refined upper surface 	<ul style="list-style-type: none"> • Optimum, high-quality test weight for precision balances • Optimum shape of the top for good grip 	<ul style="list-style-type: none"> • Affordable test weight for in-house checking of precision balances 	<ul style="list-style-type: none"> • Optimum test weight for commercial and industrial scales • Optimum shape of the top for good grip 	<ul style="list-style-type: none"> • Affordable test weight for commercial and industrial scales • Optimum shape of the top for good grip

OIML Directive R111-2004 for weights

The key points from the OIML Directive R111-2004

OIML (Organisation Internationale de Metrologie Legale) has established the exact metrological requirements for weights in verified applications in approx. 100 states all over the world. The OIML recommendation R111 (2004 Edition) for weights relates to sizes 1 mg–50 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 ± ... mg) are the respective permitted fabrication tolerances. They are to be equal to the → *measuring uncertainty* of the weight, if no → *DKD 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, i.e. 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.

KERN cylindrical test weights

Comply with OIML R111-2004 in all respects, without exception.

→ See the glossary, page 158/159

Nominal value ↓	OIML R111-2004 Maximum permissible errors for weights = permissible tolerances „Tol ± mg“						
	E1	E2	F1	F2	M1	M2	M3
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

Denomination table, valid for all KERN weight sets from 1 mg

Individual weights per set →	1	2	2	5	10	20	20	50	100	200	200	500	1 2 2 5 10 20 20 50 100 200 200 500 1 2 2 5 10															
Weight set ↓	mg	mg	mg	mg	mg	mg	mg	mg	mg	mg	mg	mg	g	g	g	g	g	g	g	g	g	g	g	kg	kg	kg	kg	kg
1 mg - 500 mg	Total weight _____ 1,11 g																											
1 mg - 50 g														_____ 111,11 g														
1 mg - 100 g														_____ 211,11 g														
1 mg - 200 g														_____ 611,11 g														
1 mg - 500 g														_____ 1.111,11 g														
1 mg - 1 kg														_____ 2.111,11 g														
1 mg - 2 kg														_____ 6.111,11 g														
1 mg - 5 kg														_____ 11.111,11 g														
1 mg - 10 kg														_____ 21.111,11 g														

Test weights CLASS E1

Milligram weights, wire shape, stainless steel

• Test weight material: Stainless steel

• Container material: Wood



Milligram weight				+ Box		+ DKD certificate		= Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€
308-31	1 mg	0,003	52,-	338-090-200	14,-	962-251	50,-	308-311-600	116,-
308-32	2 mg	0,003	52,-	338-090-200	14,-	962-252	50,-	308-321-600	116,-
308-33	5 mg	0,003	52,-	338-090-200	14,-	962-253	50,-	308-331-600	116,-
308-34	10 mg	0,003	52,-	338-090-200	14,-	962-254	50,-	308-341-600	116,-
308-35	20 mg	0,003	52,-	338-090-200	14,-	962-255	50,-	308-351-600	116,-
308-36	50 mg	0,004	52,-	338-090-200	14,-	962-256	50,-	308-361-600	116,-
308-37	100 mg	0,005	52,-	338-090-200	14,-	962-257	50,-	308-371-600	116,-
308-38	200 mg	0,006	52,-	338-090-200	14,-	962-258	50,-	308-381-600	116,-
308-39	500 mg	0,008	52,-	338-090-200	14,-	962-259	50,-	308-391-600	116,-

Individual weights, cylindrical, polished stainless steel

• Test weight material: Polished stainless steel

• Container material: Lined wood



Individual weight			+ Box		+ DKD certificate Initial calibration		= Package price		DKD certificate Recalibration		
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€
307-01	1 g	0,010	83,-	317-010-100	28,-	963-231	191,-	307-011-610	302,-	962-231	50,-
307-02	2 g	0,012	89,-	317-020-100	28,-	963-232	191,-	307-021-610	308,-	962-232	50,-
307-03	5 g	0,016	96,-	317-030-100	28,-	963-233	191,-	307-031-610	315,-	962-233	50,-
307-04	10 g	0,020	104,-	317-040-100	28,-	963-234	191,-	307-041-610	323,-	962-234	50,-
307-05	20 g	0,025	113,-	317-050-100	28,-	963-235	191,-	307-051-610	332,-	962-235	50,-
307-06	50 g	0,030	135,-	317-060-100	28,-	963-236	191,-	307-061-610	354,-	962-236	50,-
307-07	100 g	0,05	162,-	317-070-100	28,-	963-237	191,-	307-071-610	381,-	962-237	50,-
307-08	200 g	0,10	194,-	317-080-100	28,-	963-238	191,-	307-081-610	413,-	962-238	50,-
307-09	500 g	0,25	280,-	317-090-100	31,-	963-239	191,-	307-091-610	502,-	962-239	50,-
307-11	1 kg	0,5	425,-	317-110-100	35,-	963-241	191,-	307-111-610	651,-	962-241	50,-
307-12	2 kg	1,0	630,-	317-120-100	44,-	963-242	465,-	307-121-610	1.139,-	962-242	62,-
307-13	5 kg	2,5	1.060,-	317-130-100	66,-	963-243	465,-	307-131-610	1.591,-	962-243	62,-
307-14	10 kg	5,0	1.530,-	317-140-100	89,-	963-244	465,-	307-141-610	2.084,-	962-244	62,-
307-15	20 kg	10,0	2.160,-	317-150-100	340,-	963-245	1.100,-	307-151-610	3.600,-	962-245	560,-
307-16	50 kg	25,0	4.140,-	317-160-100	415,-	963-246	1.300,-	307-161-610	5.855,-	962-246	630,-

For E1 weights >1g at the point of initial calibration, a volume determination will be carried out in accordance with OIML R111. When recalibrating, this is not required.

Weight sets, cylindrical shape, polished stainless steel

• Test weight material: Polished stainless steel

• Container material: Lined wood



Weight set		+ DKD certificate Initial calibration		= Package price		DKD certificate Recalibration	
KERN	€	KERN	€	KERN	€	KERN	€
308-42	1 mg - 500 mg	962-250	335,-	308-421-600	990,-	962-250	335,-
303-02	1 mg - 50 g	963-201	1.060,-	303-021-610	2.600,-	962-201	540,-
303-03	1 mg - 100 g	963-202	1.160,-	303-031-610	2.860,-	962-202	560,-
303-04	1 mg - 200 g	963-203	1.340,-	303-041-610	3.430,-	962-203	610,-
303-05	1 mg - 500 g	963-204	1.430,-	303-051-610	3.850,-	962-204	640,-
303-06	1 mg - 1 kg	963-205	1.520,-	303-061-610	4.360,-	962-205	670,-
303-07	1 mg - 2 kg	963-206	1.980,-	303-071-610	6.130,-	962-206	720,-
303-08	1 mg - 5 kg	963-207	2.430,-	303-081-610	7.730,-	962-207	740,-
303-09	1 mg - 10 kg	963-208	2.870,-	303-091-610	9.760,-	962-208	770,-
304-02	1 g - 50 g	963-215	760,-	304-021-610	1.670,-	962-215	235,-
304-03	1 g - 100 g	963-216	850,-	304-031-610	1.920,-	962-216	260,-
304-04	1 g - 200 g	963-217	1.030,-	304-041-610	2.490,-	962-217	310,-
304-05	1 g - 500 g	963-218	1.120,-	304-051-610	2.910,-	962-218	335,-
304-06	1 g - 1 kg	963-219	1.220,-	304-061-610	3.430,-	962-219	360,-
304-07	1 g - 2 kg	963-220	1.760,-	304-071-610	5.280,-	962-220	410,-
304-08	1 g - 5 kg	963-221	2.210,-	304-081-610	6.880,-	962-221	435,-
304-09	1 g - 10 kg	963-222	2.660,-	304-091-610	8.920,-	962-222	465,-

Test weights CLASS E2

Milligram weights, flat polygonal sheet, aluminium/German silver

- Test weight material: Aluminium 1 mg - 5 mg / German silver 10 mg - 500 mg
- Container material: Lined plastic



Milligram weight				+		Container		+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€
318-01	1 mg	0,006	24,-	347-009-400	2,-	962-351	21,-	318-014-600	47,-						
318-02	2 mg	0,006	24,-	347-009-400	2,-	962-352	21,-	318-024-600	47,-						
318-03	5 mg	0,006	24,-	347-009-400	2,-	962-353	21,-	318-034-600	47,-						
318-04	10 mg	0,008	24,-	347-009-400	2,-	962-354	21,-	318-044-600	47,-						
318-05	20 mg	0,010	24,-	347-009-400	2,-	962-355	21,-	318-054-600	47,-						
318-06	50 mg	0,012	24,-	347-009-400	2,-	962-356	21,-	318-064-600	47,-						
318-07	100 mg	0,016	24,-	347-009-400	2,-	962-357	21,-	318-074-600	47,-						
318-08	200 mg	0,020	24,-	347-009-400	2,-	962-358	21,-	318-084-600	47,-						
318-09	500 mg	0,025	24,-	347-009-400	2,-	962-359	21,-	318-094-600	47,-						

Individual weights, compact shape, polished stainless steel

- Test weight material: Polished stainless steel
- Container material: Lined plastic



Individual weight				+		Container		+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€
316-01	1 g	0,03	33,-	317-020-400	6,-	962-331	21,-	316-014-600	60,-						
316-02	2 g	0,04	35,-	317-020-400	6,-	962-332	21,-	316-024-600	62,-						
316-03	5 g	0,05	37,-	317-030-400	6,-	962-333	21,-	316-034-600	64,-						
316-04	10 g	0,06	39,-	317-040-400	6,-	962-334	21,-	316-044-600	66,-						
316-05	20 g	0,08	45,-	317-050-400	6,-	962-335	21,-	316-054-600	72,-						
316-06	50 g	0,10	48,-	317-060-400	6,-	962-336	21,-	316-064-600	75,-						
316-07	100 g	0,16	52,-	317-070-400	6,-	962-337	21,-	316-074-600	79,-						
316-08	200 g	0,30	66,-	317-080-400	6,-	962-338	21,-	316-084-600	93,-						
316-09	500 g	0,8	111,-	317-090-400	9,-	962-339	21,-	316-094-600	141,-						
316-11	1 kg	1,6	161,-	317-110-400	9,-	962-341	21,-	316-114-600	191,-						
316-12	2 kg	3,0	260,-	317-120-400	9,-	962-342	26,-	316-124-600	295,-						
316-13	5 kg	8,0	375,-	317-130-400	15,-	962-343	26,-	316-134-600	416,-						
316-14	10 kg	16,0	530,-	317-140-400	20,-	962-344	26,-	316-141-600	576,-						

Individual weights, cylindrical shape, polished stainless steel

- Test weight material: Polished stainless steel
- Container material: Lined plastic or wooden box (317-150-100 and 317-160-100)



Individual weight				+		Container		+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€
317-01	1 g	0,03	47,-	317-020-400	6,-	962-331	21,-	317-011-600	74,-						
317-02	2 g	0,04	50,-	317-020-400	6,-	962-332	21,-	317-024-600	77,-						
317-03	5 g	0,05	54,-	317-030-400	6,-	962-333	21,-	317-034-600	81,-						
317-04	10 g	0,06	56,-	317-040-400	6,-	962-334	21,-	317-044-600	83,-						
317-05	20 g	0,08	65,-	317-050-400	6,-	962-335	21,-	317-054-600	92,-						
317-06	50 g	0,10	76,-	317-060-400	6,-	962-336	21,-	317-064-600	103,-						
317-07	100 g	0,16	82,-	317-070-400	6,-	962-337	21,-	317-074-600	109,-						
317-08	200 g	0,30	104,-	317-080-400	6,-	962-338	21,-	317-084-600	131,-						
317-09	500 g	0,8	175,-	317-090-400	9,-	962-339	21,-	317-094-600	205,-						
317-11	1 kg	1,6	260,-	317-110-400	9,-	962-341	21,-	317-114-600	290,-						
317-12	2 kg	3,0	415,-	317-120-400	9,-	962-342	26,-	317-124-600	450,-						
317-13	5 kg	8,0	590,-	317-130-400	15,-	962-343	26,-	317-134-600	631,-						
317-14	10 kg	16,0	850,-	317-140-400	20,-	962-344	26,-	317-141-600	896,-						
317-15	20 kg	30,0	1.340,-	317-150-100	340,-	962-345	30,-	317-151-600	1.710,-						
317-16	50 kg	80,0	2.780,-	317-160-100	415,-	962-346	62,-	317-161-600	3.257,-						

For individual weights, wooden boxes are also available as an alternative to the plastic containers.
For more details on this, please see page 151.

CLASS E2

Weight sets, compact shape, polished stainless steel



- Test weight material: Polished stainless steel
- Case material: Lined plastic

Weight set			+		DKD certificate		=		Package price	
KERN		€	KERN	€	KERN	€	KERN	€	KERN	€
312-024	1 g - 50 g	370,-	962-315	119,-	312-024-600	489,-				
312-034	1 g - 100 g	410,-	962-316	132,-	312-034-600	542,-				
312-044	1 g - 200 g	500,-	962-317	158,-	312-044-600	658,-				
312-054	1 g - 500 g	610,-	962-318	171,-	312-054-600	781,-				
312-064	1 g - 1 kg	810,-	962-319	184,-	312-064-600	994,-				
312-074	1 g - 2 kg	1.310,-	962-320	210,-	312-074-600	1.520,-				
312-084	1 g - 5 kg	1.650,-	962-321	225,-	312-084-600	1.875,-				

Weight sets, cylindrical shape, polished stainless steel



- Test weight material: Individual weights - polished stainless steel, milligram weights - aluminium/German silver
- Case material: Lined plastic. Milligram weights 1 mg - 500 mg in removable plastic box

Weight set			+		DKD certificate		=		Package price	
KERN		€	KERN	€	KERN	€	KERN	€	KERN	€
318-22	1 mg - 500 mg	320,-	962-350	171,-	318-221-600	491,-				
313-024	1 mg - 50 g	820,-	962-301	275,-	313-024-600	1.095,-				
313-034	1 mg - 100 g	910,-	962-302	290,-	313-034-600	1.200,-				
313-044	1 mg - 200 g	1.110,-	962-303	315,-	313-044-600	1.425,-				
313-054	1 mg - 500 g	1.270,-	962-304	325,-	313-054-600	1.595,-				
313-064	1 mg - 1 kg	1.630,-	962-305	340,-	313-064-600	1.970,-				
313-074	1 mg - 2 kg	2.460,-	962-306	365,-	313-074-600	2.825,-				
313-084	1 mg - 5 kg	3.050,-	962-307	380,-	313-084-600	3.430,-				
314-024	1 g - 50 g	540,-	962-315	119,-	314-024-600	659,-				
314-034	1 g - 100 g	620,-	962-316	132,-	314-034-600	752,-				
314-044	1 g - 200 g	830,-	962-317	158,-	314-044-600	988,-				
314-054	1 g - 500 g	1.010,-	962-318	171,-	314-054-600	1.181,-				
314-064	1 g - 1 kg	1.340,-	962-319	184,-	314-064-600	1.524,-				
314-074	1 g - 2 kg	2.180,-	962-320	210,-	314-074-600	2.390,-				
314-084	1 g - 5 kg	2.760,-	962-321	225,-	314-084-600	2.985,-				

Weight sets, cylindrical shape, polished stainless steel



- Test weight material: Individual weights - polished stainless steel, milligram weights - aluminium/German silver
- Box material: Lined wood. Milligram weights 1 mg - 500 mg in removable plastic box

Weight set			+		DKD certificate		=		Package price	
KERN		€	KERN	€	KERN	€	KERN	€	KERN	€
318-22	1 mg - 500 mg	320,-	962-350	171,-	318-221-600	491,-				
313-02	1 mg - 50 g	880,-	962-301	275,-	313-021-600	1.155,-				
313-03	1 mg - 100 g	960,-	962-302	290,-	313-031-600	1.250,-				
313-04	1 mg - 200 g	1.170,-	962-303	315,-	313-041-600	1.485,-				
313-05	1 mg - 500 g	1.400,-	962-304	325,-	313-051-600	1.725,-				
313-06	1 mg - 1 kg	1.670,-	962-305	340,-	313-061-600	2.010,-				
313-07	1 mg - 2 kg	2.550,-	962-306	365,-	313-071-600	2.915,-				
313-08	1 mg - 5 kg	3.250,-	962-307	380,-	313-081-600	3.630,-				
313-09	1 mg - 10 kg	4.180,-	962-308	390,-	313-091-600	4.570,-				
314-02	1 g - 50 g	590,-	962-315	119,-	314-021-600	709,-				
314-03	1 g - 100 g	670,-	962-316	132,-	314-031-600	802,-				
314-04	1 g - 200 g	880,-	962-317	158,-	314-041-600	1.038,-				
314-05	1 g - 500 g	1.120,-	962-318	171,-	314-051-600	1.291,-				
314-06	1 g - 1 kg	1.380,-	962-319	184,-	314-061-600	1.564,-				
314-07	1 g - 2 kg	2.260,-	962-320	210,-	314-071-600	2.470,-				
314-08	1 g - 5 kg	2.960,-	962-321	225,-	314-081-600	3.185,-				
314-09	1 g - 10 kg	3.890,-	962-322	235,-	314-091-600	4.125,-				

Test weights CLASS F1


Milligram weights, flat polygonal sheet, aluminium/German silver

- Test weight material: Aluminium 1 mg - 5 mg / German silver 10 mg - 500 mg
- Container material: Lined plastic



Milligram weight				+		Container		+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€		
328-01	1 mg	0,020	11,-	347-009-400	2,-	962-451	15,-	328-014-600	28,-						
328-02	2 mg	0,020	11,-	347-009-400	2,-	962-452	15,-	328-024-600	28,-						
328-03	5 mg	0,020	11,-	347-009-400	2,-	962-453	15,-	328-034-600	28,-						
328-04	10 mg	0,025	11,-	347-009-400	2,-	962-454	15,-	328-044-600	28,-						
328-05	20 mg	0,030	11,-	347-009-400	2,-	962-455	15,-	328-054-600	28,-						
328-06	50 mg	0,040	11,-	347-009-400	2,-	962-456	15,-	328-064-600	28,-						
328-07	100 mg	0,050	11,-	347-009-400	2,-	962-457	15,-	328-074-600	28,-						
328-08	200 mg	0,060	11,-	347-009-400	2,-	962-458	15,-	328-084-600	28,-						
328-09	500 mg	0,080	11,-	347-009-400	2,-	962-459	15,-	328-094-600	28,-						

Individual weights, compact shape, finely turned stainless steel

- Test weight material: Finely turned stainless steel
- Container material: Lined plastic
-  Build type: Not in accordance with OIML R111, adjusted to error limit class F1



Individual weight				+		Container		+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€		
329-01	1 g	0,10	18,-	347-030-400	2,-	962-431N	15,-	329-014-600	35,-						
329-02	2 g	0,12	19,-	347-030-400	2,-	962-432N	15,-	329-024-600	36,-						
329-03	5 g	0,16	20,-	347-030-400	2,-	962-433N	15,-	329-034-600	37,-						
329-04	10 g	0,20	23,-	347-050-400	2,-	962-434N	15,-	329-044-600	40,-						
329-05	20 g	0,25	25,-	347-050-400	2,-	962-435N	15,-	329-054-600	42,-						
329-06	50 g	0,30	27,-	347-070-400	2,-	962-436N	15,-	329-064-600	44,-						
329-07	100 g	0,50	31,-	347-070-400	2,-	962-437N	15,-	329-074-600	48,-						
329-08	200 g	1	41,-	347-080-400	2,-	962-438N	15,-	329-084-600	58,-						
329-09	500 g	2,50	58,-	347-090-400	3,-	962-439N	15,-	329-094-600	76,-						
329-11	1 kg	5	83,-	347-110-400	3,-	962-441N	15,-	329-114-600	101,-						
329-12	2 kg	10	127,-	347-120-400	3,-	962-442N	17,-	329-124-600	147,-						
329-13	5 kg	25	218,-	347-130-400	9,-	962-443N	17,-	329-134-600	244,-						
329-14	10 kg	50	412,-	347-140-400	9,-	962-444N	17,-	329-144-600	438,-						

Individual weights, compact shape, polished stainless steel

- Test weight material: Polished stainless steel
- Container material: Lined plastic



Individual weight				+		Container		+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€		
326-01	1 g	0,10	22,-	347-030-400	2,-	962-431	15,-	326-014-600	39,-						
326-02	2 g	0,12	23,-	347-030-400	2,-	962-432	15,-	326-024-600	40,-						
326-03	5 g	0,16	25,-	347-030-400	2,-	962-433	15,-	326-034-600	42,-						
326-04	10 g	0,20	28,-	347-050-400	2,-	962-434	15,-	326-044-600	45,-						
326-05	20 g	0,25	29,-	347-050-400	2,-	962-435	15,-	326-054-600	46,-						
326-06	50 g	0,30	32,-	347-070-400	2,-	962-436	15,-	326-064-600	49,-						
326-07	100 g	0,50	36,-	347-070-400	2,-	962-437	15,-	326-074-600	53,-						
326-08	200 g	1	49,-	347-080-400	2,-	962-438	15,-	326-084-600	66,-						
326-09	500 g	2,50	68,-	347-090-400	3,-	962-439	15,-	326-094-600	86,-						
326-11	1 kg	5	101,-	347-110-400	3,-	962-441	15,-	326-114-600	119,-						
326-12	2 kg	10	150,-	347-120-400	3,-	962-442	17,-	326-124-600	170,-						
326-13	5 kg	25	257,-	347-130-400	9,-	962-443	17,-	326-134-600	283,-						
326-14	10 kg	50	485,-	347-140-400	9,-	962-444	17,-	326-144-600	511,-						

For individual weights, wooden boxes are also available as an alternative to the plastic containers.
For more details on this, please see page 151.

Test weights CLASS F1

Individual weights, cylindrical shape, nickel-plated and polished brass

- Test weight material: Nickel-plated and polished brass
- Container material: Lined plastic or lined wooden box (317-150-100 and 317-160-100)



Individual weight			+	Container		+	DKD certificate		=	Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€
327-61	1 g	0,10	23,-	347-030-400	2,-	962-431	15,-	327-614-600	40,-		
327-62	2 g	0,12	24,-	347-030-400	2,-	962-432	15,-	327-624-600	41,-		
327-63	5 g	0,16	26,-	347-030-400	2,-	962-433	15,-	327-634-600	43,-		
327-64	10 g	0,20	29,-	347-050-400	2,-	962-434	15,-	327-644-600	46,-		
327-65	20 g	0,25	31,-	347-050-400	2,-	962-435	15,-	327-654-600	48,-		
327-66	50 g	0,30	34,-	347-070-400	2,-	962-436	15,-	327-664-600	51,-		
327-67	100 g	0,50	38,-	347-070-400	2,-	962-437	15,-	327-674-600	55,-		
327-68	200 g	1	52,-	347-080-400	2,-	962-438	15,-	327-684-600	69,-		
327-69	500 g	2,50	72,-	347-090-400	3,-	962-439	15,-	327-694-600	90,-		
327-71	1 kg	5	106,-	347-110-400	3,-	962-441	15,-	327-714-600	124,-		
327-72	2 kg	10	158,-	347-120-400	3,-	962-442	17,-	327-724-600	178,-		
327-73	5 kg	25	270,-	347-130-400	9,-	962-443	17,-	327-734-600	296,-		
327-74	10 kg	50	510,-	347-140-400	9,-	962-444	17,-	327-744-600	536,-		
327-75	20 kg	100	960,-	317-150-100	340,-	962-445	24,-	327-751-600	1.324,-		
327-76	50 kg	250	1.800,-	317-160-100	415,-	962-446	38,-	327-761-600	2.253,-		

Individual weights, cylindrical shape, polished stainless steel

- Test weight material: Polished stainless steel
- Container material: Lined plastic or wooden box (317-150-100 and 317-160-100)



Individual weight			+	Container		+	DKD certificate		=	Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€
327-01	1 g	0,10	30,-	347-030-400	2,-	962-431	15,-	327-014-600	47,-		
327-02	2 g	0,12	31,-	347-030-400	2,-	962-432	15,-	327-024-600	48,-		
327-03	5 g	0,16	33,-	347-030-400	2,-	962-433	15,-	327-034-600	50,-		
327-04	10 g	0,20	37,-	347-050-400	2,-	962-434	15,-	327-044-600	54,-		
327-05	20 g	0,25	41,-	347-050-400	2,-	962-435	15,-	327-054-600	58,-		
327-06	50 g	0,30	45,-	347-070-400	2,-	962-436	15,-	327-064-600	62,-		
327-07	100 g	0,50	55,-	347-070-400	2,-	962-437	15,-	327-074-600	72,-		
327-08	200 g	1	72,-	347-080-400	2,-	962-438	15,-	327-084-600	89,-		
327-09	500 g	2,50	118,-	347-090-400	3,-	962-439	15,-	327-094-600	136,-		
327-11	1 kg	5	165,-	347-110-400	3,-	962-441	15,-	327-114-600	183,-		
327-12	2 kg	10	250,-	347-120-400	3,-	962-442	17,-	327-124-600	270,-		
327-13	5 kg	25	375,-	347-130-400	9,-	962-443	17,-	327-134-600	401,-		
327-14	10 kg	50	680,-	347-140-400	9,-	962-444	17,-	327-144-600	706,-		
327-15	20 kg	100	1.050,-	317-150-100	340,-	962-445	24,-	327-151-600	1.414,-		
327-16	50 kg	250	2.270,-	317-160-100	415,-	962-446	38,-	327-161-600	2.723,-		

Alternative to plastic container:

Wooden boxes for individual weights. For more details on this, please see page 151.



Test weights CLASS F1

Weight sets, compact shape, finely turned stainless steel



• Test weight material: Finely turned stainless steel

• Case material: Lined plastic

Weight set			DKD certificate		Package price	
Finely turned, Not in accordance with OIML R111, adjusted to error limit class F1			+		=	
KERN		€	KERN	€	KERN	€
321-024	1 g - 50 g	185,-	962-415	64,-	321-024-600	249,-
321-034	1 g - 100 g	215,-	962-416	69,-	321-034-600	284,-
321-044	1 g - 200 g	280,-	962-417	78,-	321-044-600	358,-
321-054	1 g - 500 g	320,-	962-418	83,-	321-054-600	403,-
321-064	1 g - 1 kg	460,-	962-419	88,-	321-064-600	548,-
321-074	1 g - 2 kg	640,-	962-420	97,-	321-074-600	737,-
321-084	1 g - 5 kg	820,-	962-421	102,-	321-084-600	922,-

Weight sets, compact shape, polished stainless steel



• Test weight material: Polished stainless steel

• Case material: Lined plastic

Weight set			DKD certificate		Package price	
			+		=	
KERN		€	KERN	€	KERN	€
322-024	1 g - 50 g	235,-	962-415	64,-	322-024-600	299,-
322-034	1 g - 100 g	270,-	962-416	69,-	322-034-600	339,-
322-044	1 g - 200 g	350,-	962-417	78,-	322-044-600	428,-
322-054	1 g - 500 g	410,-	962-418	83,-	322-054-600	493,-
322-064	1 g - 1 kg	580,-	962-419	88,-	322-064-600	668,-
322-074	1 g - 2 kg	810,-	962-420	97,-	322-074-600	907,-
322-084	1 g - 5 kg	1.030,-	962-421	102,-	322-084-600	1.132,-

Weight sets, cylindrical shape, polished and nickel-plated brass or polished stainless steel

• Test weight material: Individual weights - nickel-plated and polished brass or polished stainless steel, milligram weights - aluminium 1 mg - 5 mg/German silver 10 mg - 500 mg

• Case material: Lined plastic. Milligram weights 1 mg - 500 mg in removable plastic box



Weight set			DKD certificate		Package price	
			+		=	
KERN		€	KERN	€	KERN	€
328-22	1 mg - 500 mg	175,-	962-450	83,-	328-221-600	258,-
Nickel-plated and polished brass						
323-624	1 mg - 50 g	400,-	962-401	121,-	323-624-600	521,-
323-634	1 mg - 100 g	435,-	962-402	126,-	323-634-600	561,-
323-644	1 mg - 200 g	530,-	962-403	136,-	323-644-600	666,-
323-654	1 mg - 500 g	590,-	962-404	140,-	323-654-600	730,-
323-664	1 mg - 1 kg	750,-	962-405	145,-	323-664-600	895,-
323-674	1 mg - 2 kg	1.030,-	962-406	156,-	323-674-600	1.186,-
323-684	1 mg - 5 kg	1.270,-	962-407	159,-	323-684-600	1.429,-
324-624	1 g - 50 g	260,-	962-415	64,-	324-624-600	324,-
324-634	1 g - 100 g	300,-	962-416	69,-	324-634-600	369,-
324-644	1 g - 200 g	380,-	962-417	78,-	324-644-600	458,-
324-654	1 g - 500 g	450,-	962-418	83,-	324-654-600	533,-
324-664	1 g - 1 kg	630,-	962-419	88,-	324-664-600	718,-
324-674	1 g - 2 kg	900,-	962-420	97,-	324-674-600	997,-
324-684	1 g - 5 kg	1.140,-	962-421	102,-	324-684-600	1.242,-
Polished stainless steel						
323-024	1 mg - 50 g	500,-	962-401	121,-	323-024-600	621,-
323-034	1 mg - 100 g	560,-	962-402	126,-	323-034-600	686,-
323-044	1 mg - 200 g	700,-	962-403	136,-	323-044-600	836,-
323-054	1 mg - 500 g	820,-	962-404	140,-	323-054-600	960,-
323-064	1 mg - 1 kg	1.070,-	962-405	145,-	323-064-600	1.215,-
323-074	1 mg - 2 kg	1.570,-	962-406	156,-	323-074-600	1.726,-
323-084	1 mg - 5 kg	1.920,-	962-407	159,-	323-084-600	2.079,-
324-024	1 g - 50 g	340,-	962-415	64,-	324-024-600	404,-
324-034	1 g - 100 g	400,-	962-416	69,-	324-034-600	469,-
324-044	1 g - 200 g	540,-	962-417	78,-	324-044-600	618,-
324-054	1 g - 500 g	660,-	962-418	83,-	324-054-600	743,-
324-064	1 g - 1 kg	890,-	962-419	88,-	324-064-600	978,-
324-074	1 g - 2 kg	1.400,-	962-420	97,-	324-074-600	1.497,-
324-084	1 g - 5 kg	1.750,-	962-421	102,-	324-084-600	1.852,-

CLASS F1

Weight sets, cylindrical shape, polished and nickel-plated brass or polished stainless steel

- **Test weight material:** Individual weights - polished and nickel-plated brass or polished stainless steel, milligram weights - aluminium 1 mg - 5 mg / German silver 10 mg - 500 mg
- **Box material:** Lined wood. Milligram weights 1 mg - 500 mg in removable plastic box



Weight set			+ DKD certificate		= Package price	
KERN		€	KERN	€	KERN	€
Polished brass and nickel-plated						
328-22	1 mg - 500 mg	175,-	962-450	83,-	328-221-600	258,-
323-62	1 mg - 50 g	455,-	962-401	121,-	323-621-600	576,-
323-63	1 mg - 100 g	485,-	962-402	126,-	323-631-600	611,-
323-64	1 mg - 200 g	580,-	962-403	136,-	323-641-600	716,-
323-65	1 mg - 500 g	700,-	962-404	140,-	323-651-600	840,-
323-66	1 mg - 1 kg	790,-	962-405	145,-	323-661-600	935,-
323-67	1 mg - 2 kg	1.120,-	962-406	156,-	323-671-600	1.276,-
323-68	1 mg - 5 kg	1.470,-	962-407	159,-	323-681-600	1.629,-
323-69	1 mg - 10 kg	1.990,-	962-408	164,-	323-691-600	2.154,-
324-62	1 g - 50 g	310,-	962-415	64,-	324-621-600	374,-
324-63	1 g - 100 g	350,-	962-416	69,-	324-631-600	419,-
324-64	1 g - 200 g	435,-	962-417	78,-	324-641-600	513,-
324-65	1 g - 500 g	560,-	962-418	83,-	324-651-600	643,-
324-66	1 g - 1 kg	660,-	962-419	88,-	324-661-600	748,-
324-67	1 g - 2 kg	980,-	962-420	97,-	324-671-600	1.077,-
324-68	1 g - 5 kg	1.330,-	962-421	102,-	324-681-600	1.432,-
324-69	1 g - 10 kg	1.850,-	962-422	107,-	324-691-600	1.957,-
Polished stainless steel						
323-02	1 mg - 50 g	560,-	962-401	121,-	323-021-600	681,-
323-03	1 mg - 100 g	610,-	962-402	126,-	323-031-600	736,-
323-04	1 mg - 200 g	750,-	962-403	136,-	323-041-600	886,-
323-05	1 mg - 500 g	930,-	962-404	140,-	323-051-600	1.070,-
323-06	1 mg - 1 kg	1.100,-	962-405	145,-	323-061-600	1.245,-
323-07	1 mg - 2 kg	1.650,-	962-406	156,-	323-071-600	1.806,-
323-08	1 mg - 5 kg	2.110,-	962-407	159,-	323-081-600	2.269,-
323-09	1 mg - 10 kg	2.880,-	962-408	164,-	323-091-600	3.044,-
324-02	1 g - 50 g	390,-	962-415	64,-	324-021-600	454,-
324-03	1 g - 100 g	450,-	962-416	69,-	324-031-600	519,-
324-04	1 g - 200 g	600,-	962-417	78,-	324-041-600	678,-
324-05	1 g - 500 g	760,-	962-418	83,-	324-051-600	843,-
324-06	1 g - 1 kg	940,-	962-419	88,-	324-061-600	1.028,-
324-07	1 g - 2 kg	1.480,-	962-420	97,-	324-071-600	1.577,-
324-08	1 g - 5 kg	1.950,-	962-421	102,-	324-081-600	2.052,-
324-09	1 g - 10 kg	2.710,-	962-422	107,-	324-091-600	2.817,-



You can make up your own individual weight set yourself:

It contains only the weights which you need for testing purposes. KERN will make your own personal box out of plastic, wood or aluminium. For more details on this, please see page 152.

Test weights CLASS F2

Milligram weights, flat polygonal sheet, aluminium/German silver

- Test weight material: Aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg
- Container material: Lined plastic



Milligram weight			+		Container		+		DKD certificate		=		Package price	
KERN	Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€
338-01	1 mg	0,06	10,-	347-009-400	2,-	962-451	15,-	338-014-600	27,-					
338-02	2 mg	0,06	10,-	347-009-400	2,-	962-452	15,-	338-024-600	27,-					
338-03	5 mg	0,06	10,-	347-009-400	2,-	962-453	15,-	338-034-600	27,-					
338-04	10 mg	0,08	10,-	347-009-400	2,-	962-454	15,-	338-044-600	27,-					
338-05	20 mg	0,10	10,-	347-009-400	2,-	962-455	15,-	338-054-600	27,-					
338-06	50 mg	0,12	10,-	347-009-400	2,-	962-456	15,-	338-064-600	27,-					
338-07	100 mg	0,16	10,-	347-009-400	2,-	962-457	15,-	338-074-600	27,-					
338-08	200 mg	0,20	10,-	347-009-400	2,-	962-458	15,-	338-084-600	27,-					
338-09	500 mg	0,25	10,-	347-009-400	2,-	962-459	15,-	338-094-600	27,-					

Individual weights, cylindrical shape, finely turned stainless steel

- Test weight material: Finely turned stainless steel
- Container material: Lined plastic or wooden box (337-150-200 and 337-160-200)



Individual weight			+		Container		+		DKD certificate		=		Package price	
KERN	Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€
337-01	1 g	0,3	19,-	347-030-400	2,-	962-431	15,-	337-014-600	36,-					
337-02	2 g	0,4	20,-	347-030-400	2,-	962-432	15,-	337-024-600	37,-					
337-03	5 g	0,5	22,-	347-030-400	2,-	962-433	15,-	337-034-600	39,-					
337-04	10 g	0,6	24,-	347-050-400	2,-	962-434	15,-	337-044-600	41,-					
337-05	20 g	0,8	26,-	347-050-400	2,-	962-435	15,-	337-054-600	43,-					
337-06	50 g	1,0	28,-	347-070-400	2,-	962-436	15,-	337-064-600	45,-					
337-07	100 g	1,6	32,-	347-070-400	2,-	962-437	15,-	337-074-600	49,-					
337-08	200 g	3,0	42,-	347-080-400	2,-	962-438	15,-	337-084-600	59,-					
337-09	500 g	8,0	60,-	347-090-400	3,-	962-439	15,-	337-094-600	78,-					
337-11	1 kg	16	84,-	347-110-400	3,-	962-441	15,-	337-114-600	102,-					
337-12	2 kg	30	129,-	347-120-400	3,-	962-442	17,-	337-124-600	149,-					
337-13	5 kg	80	220,-	347-130-400	9,-	962-443	17,-	337-134-600	246,-					
337-14	10 kg	160	415,-	347-140-400	9,-	962-444	17,-	337-144-600	441,-					
337-15	20 kg	300	710,-	337-150-200	220,-	962-445	24,-	337-152-600	954,-					
337-16	50 kg	800	1.290,-	337-160-200	345,-	962-446	38,-	337-162-600	1.673,-					



Alternative to plastic container:

Wooden boxes for individual weights. For more details on this, please see page 151.

Test weights, stainless steel, stackable



- Test weight material: Stainless steel, finely turned

Test weight				+		DKD certificate	
KERN	Tol ±mg	Dim. Ø x H	€	KERN	€	KERN	€
337-141	10 kg	160	137 x 132 mm	550,-	962-444	17,-	
337-151	20 kg	300	137 x 217 mm	670,-	962-445	24,-	
337-161	50 kg	800	198 x 250 mm	1.790,-	962-446	38,-	

CLASS F2

Weight sets, cylindrical shape, finely turned stainless steel

- **Test weight material:** Individual weights - finely turned stainless steel, milligram weights - aluminium 1 mg - 5 mg / German silver 10 mg - 500 mg
- **Case material:** Lined plastic. Milligram weights 1 mg - 500 mg in removable plastic box



Weight set			+		DKD certificate		=		Package price	
KERN		€	KERN	€	KERN	€	KERN	€	KERN	€
338-22	1 mg - 500 mg	143,-	962-450	83,-	338-224-600	226,-				
333-024	1 mg - 50 g	365,-	962-401	121,-	333-024-600	486,-				
333-034	1 mg - 100 g	405,-	962-402	126,-	333-034-600	531,-				
333-044	1 mg - 200 g	495,-	962-403	136,-	333-044-600	631,-				
333-054	1 mg - 500 g	570,-	962-404	140,-	333-054-600	710,-				
333-064	1 mg - 1 kg	690,-	962-405	145,-	333-064-600	835,-				
333-074	1 mg - 2 kg	970,-	962-406	156,-	333-074-600	1.126,-				
333-084	1 mg - 5 kg	1.250,-	962-407	159,-	333-084-600	1.409,-				
334-024	1 g - 50 g	225,-	962-415	64,-	334-024-600	289,-				
334-034	1 g - 100 g	265,-	962-416	69,-	334-034-600	334,-				
334-044	1 g - 200 g	360,-	962-417	78,-	334-044-600	438,-				
334-054	1 g - 500 g	425,-	962-418	83,-	334-054-600	508,-				
334-064	1 g - 1 kg	560,-	962-419	88,-	334-064-600	648,-				
334-074	1 g - 2 kg	850,-	962-420	97,-	334-074-600	947,-				
334-084	1 g - 5 kg	1.120,-	962-421	102,-	334-084-600	1.222,-				

Weight sets, cylindrical shape, finely turned stainless steel

- **Test weight material:** Individual weights - finely turned stainless steel, milligram weights - aluminium 1 mg - 5 mg / German silver 10 mg - 500 mg
- **Box material:** Wood



Weight set			+		DKD certificate		=		Package price	
KERN		€	KERN	€	KERN	€	KERN	€	KERN	€
338-22	1 mg - 500 mg	143,-	962-450	83,-	338-224-600	226,-				
333-02	1 mg - 50 g	365,-	962-401	121,-	333-022-600	486,-				
333-03	1 mg - 100 g	405,-	962-402	126,-	333-032-600	531,-				
333-04	1 mg - 200 g	495,-	962-403	136,-	333-042-600	631,-				
333-05	1 mg - 500 g	570,-	962-404	140,-	333-052-600	710,-				
333-06	1 mg - 1 kg	690,-	962-405	145,-	333-062-600	835,-				
333-07	1 mg - 2 kg	970,-	962-406	156,-	333-072-600	1.126,-				
333-08	1 mg - 5 kg	1.250,-	962-407	159,-	333-082-600	1.409,-				
333-09	1 mg - 10 kg	1.750,-	962-408	164,-	333-092-600	1.914,-				
334-02	1 g - 50 g	225,-	962-415	64,-	334-022-600	289,-				
334-03	1 g - 100 g	265,-	962-416	69,-	334-032-600	334,-				
334-04	1 g - 200 g	360,-	962-417	78,-	334-042-600	438,-				
334-05	1 g - 500 g	425,-	962-418	83,-	334-052-600	508,-				
334-06	1 g - 1 kg	560,-	962-419	88,-	334-062-600	648,-				
334-07	1 g - 2 kg	850,-	962-420	97,-	334-072-600	947,-				
334-08	1 g - 5 kg	1.120,-	962-421	102,-	334-082-600	1.222,-				
334-09	1 g - 10 kg	1.610,-	962-422	107,-	334-092-600	1.717,-				



You can make up your own individual weight set yourself:

It contains only the weights which you need for testing purposes. KERN will make your own personal box out of plastic, wood or aluminium. For more details on this, please see page 152.

Test weights CLASS M1

Milligram weights, flat polygonal sheet, aluminium/German silver

- Test weight material: Aluminium 1 mg – 5 mg/German silver 10 mg – 500 mg
- Container material: Lined plastic



Milligram weight				+		Container		+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€
348-01	1 mg	0,20	4,10	347-009-400	2,-	962-651	13,-	348-014-600	19,10						
348-02	2 mg	0,20	4,10	347-009-400	2,-	962-652	13,-	348-024-600	19,10						
348-03	5 mg	0,20	4,10	347-009-400	2,-	962-653	13,-	348-034-600	19,10						
348-04	10 mg	0,25	4,10	347-009-400	2,-	962-654	13,-	348-044-600	19,10						
348-05	20 mg	0,30	4,10	347-009-400	2,-	962-655	13,-	348-054-600	19,10						
348-06	50 mg	0,40	4,10	347-009-400	2,-	962-656	13,-	348-064-600	19,10						
348-07	100 mg	0,50	4,10	347-009-400	2,-	962-657	13,-	348-074-600	19,10						
348-08	200 mg	0,60	4,10	347-009-400	2,-	962-658	13,-	348-084-600	19,10						
348-09	500 mg	0,80	4,10	347-009-400	2,-	962-659	13,-	348-094-600	19,10						

Individual weights, cylindrical shape, finely turned brass or finely turned stainless steel

- Test weight material: Individual weights - finely turned brass or finely turned stainless steel
- Container material: Lined plastic



Individual weight				+		Container		+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€	KERN	€
Finely turned brass															
347-41	1 g	1,0	4,10	347-030-400	2,-	962-631	13,-	347-414-600	19,10						
347-42	2 g	1,2	4,40	347-030-400	2,-	962-632	13,-	347-424-600	19,40						
347-43	5 g	1,6	4,80	347-030-400	2,-	962-633	13,-	347-434-600	19,80						
347-44	10 g	2,0	5,30	347-050-400	2,-	962-634	13,-	347-444-600	20,30						
347-45	20 g	2,5	5,70	347-050-400	2,-	962-635	13,-	347-454-600	20,70						
347-46	50 g	3,0	6,70	347-070-400	2,-	962-636	13,-	347-464-600	21,70						
347-47	100 g	5,0	8,60	347-070-400	2,-	962-637	13,-	347-474-600	23,60						
347-48	200 g	10	13,00	347-080-400	2,-	962-638	13,-	347-484-600	28,00						
347-49	500 g	25	28,00	347-090-400	3,-	962-639	13,-	347-494-600	44,00						
347-51	1 kg	50	43,00	347-110-400	3,-	962-641	13,-	347-514-600	59,00						
347-52	2 kg	100	77,00	347-120-400	3,-	962-642	13,-	347-524-600	93,00						
347-53	5 kg	250	165,00	347-130-400	9,-	962-643	14,-	347-534-600	188,00						
347-54	10 kg	500	310,00	347-140-400	9,-	962-644	17,-	347-544-600	336,00						
Finely turned stainless steel															
347-01	1 g	1,0	4,60	347-030-400	2,-	962-631	13,-	347-014-600	19,60						
347-02	2 g	1,2	4,90	347-030-400	2,-	962-632	13,-	347-024-600	19,90						
347-03	5 g	1,6	5,40	347-030-400	2,-	962-633	13,-	347-034-600	20,40						
347-04	10 g	2,0	5,80	347-050-400	2,-	962-634	13,-	347-044-600	20,80						
347-05	20 g	2,5	6,50	347-050-400	2,-	962-635	13,-	347-054-600	21,50						
347-06	50 g	3,0	8,20	347-070-400	2,-	962-636	13,-	347-064-600	23,20						
347-07	100 g	5,0	11,00	347-070-400	2,-	962-637	13,-	347-074-600	26,00						
347-08	200 g	10	16,00	347-080-400	2,-	962-638	13,-	347-084-600	31,00						
347-09	500 g	25	34,00	347-090-400	3,-	962-639	13,-	347-094-600	50,00						
347-11	1 kg	50	54,00	347-110-400	3,-	962-641	13,-	347-114-600	70,00						
347-12	2 kg	100	92,00	347-120-400	3,-	962-642	13,-	347-124-600	108,00						
347-13	5 kg	250	196,00	347-130-400	9,-	962-643	14,-	347-134-600	219,00						
347-14	10 kg	500	385,00	347-140-400	9,-	962-644	17,-	347-144-600	411,00						

Test weights, stainless steel, stackable



- Test weight material: Stainless steel, finely turned

Test weight					+		DKD certificate	
KERN		Tol ±g	Dim. Ø x H	€	KERN	€	KERN	€
347-141	10 kg	0,50	137 x 132 mm	465,-	962-644	17,-		
347-151	20 kg	1,00	137 x 217 mm	530,-	962-645	21,-		
347-161	50 kg	2,50	198 x 250 mm	1.510,-	962-646	23,-		

CLASS M1

Weight sets, cylindrical shape, finely turned brass or finely turned stainless steel

- **Test weight material:** Individual weights - finely turned brass or finely turned stainless steel, milligram weights - aluminium/German silver
- **Case material:** Lined plastic. Milligram weights 1 mg - 500 mg in a removable plastic box



Weight set			+		DKD certificate		=		Package price	
KERN		€	KERN	€	KERN	€	KERN	€	KERN	€
Finely turned brass										
348-22	1 mg - 500 mg	69,-	962-650	42,-	348-224-600				111,-	
343-424	1 mg - 50 g	149,-	962-601	59,-	343-424-600				208,-	
343-434	1 mg - 100 g	162,-	962-602	68,-	343-434-600				230,-	
343-444	1 mg - 200 g	191,-	962-603	72,-	343-444-600				263,-	
343-454	1 mg - 500 g	220,-	962-604	74,-	343-454-600				294,-	
343-464	1 mg - 1 kg	305,-	962-605	76,-	343-464-600				381,-	
343-474	1 mg - 2 kg	485,-	962-606	81,-	343-474-600				566,-	
343-484	1 mg - 5 kg	710,-	962-607	83,-	343-484-600				793,-	
344-424	1 g - 50 g	81,-	962-615	40,-	344-424-600				121,-	
344-434	1 g - 100 g	94,-	962-616	42,-	344-434-600				136,-	
344-444	1 g - 200 g	124,-	962-617	47,-	344-444-600				171,-	
344-454	1 g - 500 g	158,-	962-618	49,-	344-454-600				207,-	
344-464	1 g - 1 kg	250,-	962-619	51,-	344-464-600				301,-	
344-474	1 g - 2 kg	430,-	962-620	55,-	344-474-600				485,-	
344-484	1 g - 5 kg	650,-	962-621	57,-	344-484-600				707,-	
Finely turned stainless steel										
343-024	1 mg - 50 g	155,-	962-601	59,-	343-024-600				214,-	
343-034	1 mg - 100 g	170,-	962-602	68,-	343-034-600				238,-	
343-044	1 mg - 200 g	205,-	962-603	72,-	343-044-600				277,-	
343-054	1 mg - 500 g	245,-	962-604	74,-	343-054-600				319,-	
343-064	1 mg - 1 kg	335,-	962-605	76,-	343-064-600				411,-	
343-074	1 mg - 2 kg	540,-	962-606	81,-	343-074-600				621,-	
343-084	1 mg - 5 kg	800,-	962-607	83,-	343-084-600				883,-	
344-024	1 g - 50 g	88,-	962-615	40,-	344-024-600				128,-	
344-034	1 g - 100 g	102,-	962-616	42,-	344-034-600				144,-	
344-044	1 g - 200 g	139,-	962-617	47,-	344-044-600				186,-	
344-054	1 g - 500 g	179,-	962-618	49,-	344-054-600				228,-	
344-064	1 g - 1 kg	285,-	962-619	51,-	344-064-600				336,-	
344-074	1 g - 2 kg	490,-	962-620	55,-	344-074-600				545,-	
344-084	1 g - 5 kg	750,-	962-621	57,-	344-084-600				807,-	

Weight sets, cylindrical shape, finely turned brass or finely turned stainless steel

- **Test weight material:** Individual weights - finely turned brass or finely turned stainless steel, milligram weights - aluminium 1 mg - 5 mg / German silver 10 mg - 500 mg
- **Box material:** Wood



Weight set			+		DKD certificate		=		Package price	
KERN		€	KERN	€	KERN	€	KERN	€	KERN	€
Finely turned brass										
348-22	1 mg - 500 mg	69,-	962-650	42,-	348-224-600				111,-	
343-42	1 mg - 50 g	149,-	962-601	59,-	343-422-600				208,-	
343-43	1 mg - 100 g	162,-	962-602	68,-	343-432-600				230,-	
343-44	1 mg - 200 g	191,-	962-603	72,-	343-442-600				263,-	
343-45	1 mg - 500 g	220,-	962-604	74,-	343-452-600				294,-	
343-46	1 mg - 1 kg	305,-	962-605	76,-	343-462-600				381,-	
343-47	1 mg - 2 kg	485,-	962-606	81,-	343-472-600				566,-	
343-48	1 mg - 5 kg	710,-	962-607	83,-	343-482-600				793,-	
343-49	1 mg - 10 kg	1.090,-	962-608	85,-	343-492-600				1.175,-	
344-42	1 g - 50 g	81,-	962-615	40,-	344-422-600				121,-	
344-43	1 g - 100 g	94,-	962-616	42,-	344-432-600				136,-	
344-44	1 g - 200 g	124,-	962-617	47,-	344-442-600				171,-	
344-45	1 g - 500 g	158,-	962-618	49,-	344-452-600				207,-	
344-46	1 g - 1 kg	250,-	962-619	51,-	344-462-600				301,-	
344-47	1 g - 2 kg	430,-	962-620	55,-	344-472-600				485,-	
344-48	1 g - 5 kg	650,-	962-621	57,-	344-482-600				707,-	
344-49	1 g - 10 kg	1.020,-	962-622	59,-	344-492-600				1.079,-	

CLASS M1

Continuation of weight sets, cylindrical shape, finely turned brass or finely turned stainless steel



Weight set			+ DKD certificate		= Package price	
KERN		€	KERN	€	KERN	€
343-02	1 mg - 50 g	155,-	962-601	59,-	343-022-600	214,-
343-03	1 mg - 100g	170,-	962-602	68,-	343-032-600	238,-
343-04	1 mg - 200 g	205,-	962-603	72,-	343-042-600	277,-
343-05	1 mg - 500 g	245,-	962-604	74,-	343-052-600	319,-
343-06	1 mg - 1 kg	335,-	962-605	76,-	343-062-600	411,-
343-07	1 mg - 2 kg	540,-	962-606	81,-	343-072-600	621,-
343-08	1 mg - 5 kg	800,-	962-607	83,-	343-082-600	883,-
343-09	1 mg - 10 kg	1.250,-	962-608	85,-	343-092-600	1.335,-
344-02	1 g - 50 g	88,-	962-615	40,-	344-022-600	128,-
344-03	1 g - 100 g	102,-	962-616	42,-	344-032-600	144,-
344-04	1 g - 200 g	139,-	962-617	47,-	344-042-600	186,-
344-05	1 g - 500 g	179,-	962-618	49,-	344-052-600	228,-
344-06	1 g - 1 kg	285,-	962-619	51,-	344-062-600	336,-
344-07	1 g - 2 kg	490,-	962-620	55,-	344-072-600	545,-
344-08	1 g - 5 kg	750,-	962-621	57,-	344-082-600	807,-
344-09	1 g - 10 kg	1.190,-	962-622	59,-	344-092-600	1.249,-



You can make up your own individual weight set yourself:
It contains only the weights which you need for testing purposes.
KERN will make your own personal box out of plastic, wood or aluminium For more details on this, please see page 152.

Newton weights (N)

All hook and slotted weights as well as beam bars are available with N adjustment according to **M1 tolerances**. Additional price € 8,-. We need to know the location of use and post code.

DKD-calibration certificate for N weights: identical to DKD prices for individual weights **M1**, additional price € 8,-.

Hook weights, finely turned brass

- Test weight material: Finely turned brass
- Container material: Lined plastic



Hook weight				+ Container		+ DKD certificate		= Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€
347-416	1 g	1,0	12,-	347-030-400	2,-	962-631	13,-	347-4164-600	27,-
347-426	2 g	1,2	13,-	347-030-400	2,-	962-632	13,-	347-4264-600	28,-
347-436	5 g	1,6	14,-	347-030-400	2,-	962-633	13,-	347-4364-600	29,-
347-446	10 g	2,0	15,-	347-050-400	2,-	962-634	13,-	347-4464-600	30,-
347-456	20 g	2,5	16,-	347-050-400	2,-	962-635	13,-	347-4564-600	31,-
347-466	50 g	3,0	20,-	347-070-400	2,-	962-636	13,-	347-4664-600	35,-
347-476	100 g	5	23,-	347-090-400	3,-	962-637	13,-	347-4764-600	39,-
347-486	200 g	10	31,-	347-090-400	3,-	962-638	13,-	347-4864-600	47,-
347-496	500 g	25	43,-	347-110-400	3,-	962-639	13,-	347-4964-600	59,-
347-516	1 kg	50	63,-	347-120-400	3,-	962-641	13,-	347-5164-600	79,-
347-526	2 kg	100	104,-	347-130-400	9,-	962-642	13,-	347-5264-600	126,-
347-536	5 kg	250	180,-	347-140-400	9,-	962-643	14,-	347-5364-600	203,-
347-546	10 kg	500	350,-	-	-	962-644	17,-	-	-

Test weights CLASS M1

Slotted weights, finely turned brass

- Test weight material: Finely turned brass
- Container material: Lined plastic



Slotted weight				+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€
347-415	1 g	1,0	14,-	347-030-400	2,-	962-631	13,-	347-4154-600	29,-		
347-425	2 g	1,2	15,-	347-030-400	2,-	962-632	13,-	347-4254-600	30,-		
347-435	5 g	1,6	16,-	347-030-400	2,-	962-633	13,-	347-4354-600	31,-		
347-445	10 g	2,0	19,-	347-030-400	2,-	962-634	13,-	347-4454-600	34,-		
347-455	20 g	2,5	20,-	347-080-400	2,-	962-635	13,-	347-4554-600	35,-		
347-465	50 g	3,0	22,-	347-080-400	2,-	962-636	13,-	347-4654-600	37,-		
347-475	100 g	5	25,-	347-090-400	3,-	962-637	13,-	347-4754-600	41,-		
347-485	200 g	10	30,-	347-090-400	3,-	962-638	13,-	347-4854-600	46,-		
347-495	500 g	25	48,-	347-110-400	3,-	962-639	13,-	347-4954-600	64,-		
347-515	1 kg	50	77,-	347-130-400	9,-	962-641	13,-	347-5154-600	99,-		
347-525	2 kg	100	116,-	347-130-400	9,-	962-642	13,-	347-5254-600	138,-		
347-535	5 kg	250	216,-	347-140-400	9,-	962-643	14,-	347-5354-600	239,-		
347-545	10 kg	500	376,-	347-140-400	9,-	962-644	17,-	347-5454-600	402,-		

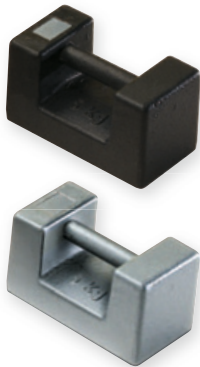
Beam bars, finely turned brass, for fixing slotted weights



- Carrier bar material: Brass, aluminium (347-445-100)

Carrier bar					+		DKD certificate	
KERN	Size	Largest slotted weight possible	Maximum total load	€	KERN	€	KERN	€
347-445-100	10 g	100 g	200 g	30,-	962-634	13,-		
347-475-100	100 g	1 kg	2 kg	50,-	962-637	13,-		
347-495-100	500 g	10 kg	20 kg	79,-	962-639	13,-		
347-515-100	1000 g	10 kg	40 kg	118,-	962-641	13,-		

Rectangular weights, lacquered cast iron/stainless steel



- Test weight material: Lacquered cast iron/stainless steel (in OIML classes F1 and F2 on request)

Rectangular weight				+		DKD certificate		=		Package price	
KERN		Tol ±g	€	KERN	€	KERN	€	KERN	€	KERN	€
Lacquered cast iron											
346-86	5 kg	0,25	62,-	962-643	14,-	346-860-600	76,-				
346-87	10 kg	0,50	82,-	962-644	17,-	346-870-600	99,-				
346-88	20 kg	1,00	114,-	962-645	21,-	346-880-600	135,-				
346-89	50 kg	2,50	310,-	962-646	23,-	346-890-600	333,-				
Stainless steel											
346-06	5 kg	0,25	315,-	962-643	14,-	346-060-600	329,-				
346-07	10 kg	0,50	455,-	962-644	17,-	346-070-600	472,-				
346-08	20 kg	1,00	580,-	962-645	21,-	346-080-600	601,-				
346-09	50 kg	2,50	1.490,-	962-646	23,-	346-090-600	1.513,-				

Heavy duty weights, cast iron, stackable. Designed to be lifted with forklift trucks or cranes.

- Test weight material: Lacquered cast iron



Heavy duty weight					+		DKD certificate	
KERN		Tol ±g	Dim. W x D x H	€	KERN	€	KERN	€
346-81	100 kg	5	340 x 225 x 280 mm	970,-	962-691	60,-		
346-82	200 kg	10	465 x 340 x 291 mm	1.270,-	962-692	60,-		
346-83	500 kg	25	750 x 500 x 314 mm	2.540,-	962-693	60,-		
346-84	1000 kg	50	750 x 500 x 500 mm	3.730,-	962-694	130,-		
346-85	2000 kg	100	1000 x 750 x 500 mm	6.060,-	962-695	190,-		

Test weights CLASS M2

Individual weights, cylindrical shape, finely turned brass

- Test weight material: Finely turned brass
- Container material: Lined plastic



Individual weight				+		DKD certificate		=		Package price	
KERN		Tol ±mg	€	KERN	€	KERN	€	KERN	€		€
357-41	1 g	3	3,60	347-030-400	2,-	962-631	13,-	357-414-600		18,60	
357-42	2 g	4	3,90	347-030-400	2,-	962-632	13,-	357-424-600		18,90	
357-43	5 g	5	4,30	347-030-400	2,-	962-633	13,-	357-434-600		19,30	
357-44	10 g	6	4,70	347-050-400	2,-	962-634	13,-	357-444-600		19,70	
357-45	20 g	8	5,20	347-050-400	2,-	962-635	13,-	357-454-600		20,20	
357-46	50 g	10	6,20	347-070-400	2,-	962-636	13,-	357-464-600		21,20	
357-47	100 g	16	8,00	347-070-400	2,-	962-637	13,-	357-474-600		23,00	
357-48	200 g	30	12,00	347-080-400	2,-	962-638	13,-	357-484-600		27,00	
357-49	500 g	80	26,00	347-090-400	3,-	962-639	13,-	357-494-600		42,00	
357-51	1 kg	160	41,00	347-110-400	3,-	962-641	13,-	357-514-600		57,00	
357-52	2 kg	300	69,00	347-120-400	3,-	962-642	13,-	357-524-600		85,00	
357-53	5 kg	800	149,00	347-130-400	9,-	962-643	14,-	357-534-600		172,00	
357-54	10 kg	1600	295,00	347-140-400	9,-	962-644	17,-	357-544-600		321,00	



Alternative to plastic container:

Wooden boxes for individual weights. For more details on this, please see page 151.

Rectangular weights, lacquered cast iron



- Test weight material: Lacquered cast iron

Rectangular weight				+		DKD certificate		=		Package price	
KERN		Tol ±g	€	KERN	€	KERN	€	KERN	€		€
356-86	5 kg	0,8	59,-	962-643	14,-	356-860-600		73,-			
356-87	10 kg	1,6	79,-	962-644	17,-	356-870-600		96,-			
356-88	20 kg	3,0	112,-	962-645	21,-	356-880-600		133,-			
356-89	50 kg	8,0	295,-	962-646	23,-	356-890-600		318,-			

Weight sets, cylindrical shape, finely turned brass

- Test weight material: Finely turned brass
- Box material: Wooden box



Weight set			+		DKD certificate		=		Package price	
KERN		€	KERN	€	KERN	€	KERN	€		€
354-42	1 g - 50 g	78,-	962-615	40,-	354-422-600		118,-			
354-43	1 g - 100 g	89,-	962-616	42,-	354-432-600		131,-			
354-44	1 g - 200 g	117,-	962-617	47,-	354-442-600		164,-			
354-45	1 g - 500 g	149,-	962-618	49,-	354-452-600		198,-			
354-46	1 g - 1 kg	245,-	962-619	51,-	354-462-600		296,-			
354-47	1 g - 2 kg	405,-	962-620	55,-	354-472-600		460,-			
354-48	1 g - 5 kg	610,-	962-621	57,-	354-482-600		667,-			
354-49	1 g - 10 kg	970,-	962-622	59,-	354-492-600		1.029,-			

Test weights CLASS M3

Individual weights, cylindrical shape, finely turned brass

- Test weight material: Finely turned brass
- Container material: Lined plastic



Individual weight			+		DKD certificate		=		Package price	
KERN	Tol ±mg	€	KERN	€	KERN	€	KERN	€	KERN	€
367-41	1 g	10	3,00	347-030-400	2,-	962-631	13,-	367-414-600	18,00	
367-42	2 g	12	3,40	347-030-400	2,-	962-632	13,-	367-424-600	18,40	
367-43	5 g	16	3,80	347-030-400	2,-	962-633	13,-	367-434-600	18,80	
367-44	10 g	20	4,20	347-050-400	2,-	962-634	13,-	367-444-600	19,20	
367-45	20 g	25	4,60	347-050-400	2,-	962-635	13,-	367-454-600	19,60	
367-46	50 g	30	5,40	347-070-400	2,-	962-636	13,-	367-464-600	20,40	
367-47	100 g	50	6,70	347-070-400	2,-	962-637	13,-	367-474-600	21,70	
367-48	200 g	100	9,80	347-080-400	2,-	962-638	13,-	367-484-600	24,80	
367-49	500 g	250	22,00	347-090-400	3,-	962-639	13,-	367-494-600	38,00	
367-51	1 kg	500	35,00	347-110-400	3,-	962-641	13,-	367-514-600	51,00	
367-52	2 kg	1000	59,00	347-120-400	3,-	962-642	13,-	367-524-600	75,00	

Individual weights, cylindrical, lacquered cast iron

- Test weight material: Lacquered cast iron. 20 kg and 50 kg with bracket



Individual weight				+		DKD certificate		=		Package price	
KERN	Tol ±g	€	€	KERN	€	KERN	€	KERN	€	KERN	€
366-91	100 g	0,05	11,-	962-637	13,-	366-910-600	24,-				
366-92	200 g	0,10	12,-	962-638	13,-	366-920-600	25,-				
366-93	500 g	0,25	18,-	962-639	13,-	366-930-600	31,-				
366-94	1 kg	0,50	22,-	962-641	13,-	366-940-600	35,-				
366-95	2 kg	1,0	40,-	962-642	13,-	366-950-600	53,-				
366-96	5 kg	2,5	66,-	962-643	14,-	366-960-600	80,-				
366-97	10 kg	5	118,-	962-644	17,-	366-970-600	135,-				
366-98	20 kg	10	235,-	962-645	21,-	366-980-600	256,-				
366-99	50 kg	25	550,-	962-646	23,-	366-990-600	573,-				

Rectangular weights, lacquered cast iron

- Test weight material: Lacquered cast iron



Rectangular weight				+		DKD certificate		=		Package price	
KERN	Tol ±g	€	€	KERN	€	KERN	€	KERN	€	KERN	€
366-86	5 kg	2,5	57,-	962-643	14,-	366-860-600	71,-				
366-87	10 kg	5	77,-	962-644	17,-	366-870-600	94,-				
366-88	20 kg	10	110,-	962-645	21,-	366-880-600	131,-				
366-89	50 kg	25	290,-	962-646	23,-	366-890-600	313,-				

Weight sets, cylindrical, lacquered brass and cast iron

- Test weight material: Brass lacquered and cast iron
- Container material: Wooden block



Weight set			+		DKD certificate		=		Package price	
KERN	€	€	KERN	€	KERN	€	KERN	€	KERN	€
362-96	1 g - 1 kg	140,-	962-619	51,-	362-963-600	191,-				
362-97	1 g - 2 kg	225,-	962-620	55,-	362-973-600	280,-				
362-98	1 g - 5 kg	295,-	962-621	57,-	362-983-600	352,-				
362-99	1 g - 10 kg	420,-	962-622	59,-	362-993-600	479,-				

Test weights-accessories

Tweezers, weight forks, weight grips, gloves, dusting brush

- Test weight material: Finely turned brass
- Container material: Lined plastic



Tweezers to be able to safely grip small test weights

For weights of the class	For weights	KERN	Length	Version	€
E1 - F1	1 mg - 200 g	315-243	105 mm	1 Stainless steel with silicone-coated tips	15,00
E1 - F1	500 g - 2 kg	315-245	250 mm	1 Stainless steel with silicone-coated tips	32,00
F2 - M3	1 mg - 200 g	335-240	100 mm	2 Stainless steel	6,80
E1 - M1	1 mg - 200 g	315-242	100 mm	3 Plastic	6,20



Weight fork to be able to better grip the individual, cylindrical weights

KERN	For weights	€
315-253	2 kg	52,-
315-254	5 kg	57,-



Weight carrying handle to be able to safely grip heavy, individual cylindrical weights

KERN	For weights	€
315-264	10 kg	88,-
315-265	20 kg	108,-
315-266	50 kg	290,-



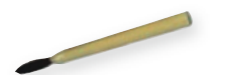
Gloves, cotton, 1 pair. Help to protect the test weights when being used daily, from grease from fingers, damp etc.

KERN	€
317-280	2,50



Gloves, leather/cotton, 1 pair. Help to protect the test weights when being used daily, from grease from fingers, damp etc.

KERN	€
317-290	6,90



Dusting brush to clean the weights

KERN	€
318-270	4,20

Wooden boxes for individual weights

- Box material: Lined wood.
Suitable for individual weights
KERN No. 307, 316, 317, 326, 327, 329

Wooden box
for individual weights E1 - F1

For weights	KERN	€
mg	338-090-200	14,-
1 g	317-010-100	28,-
2 g	317-020-100	28,-
5 g	317-030-100	28,-
10 g	317-040-100	28,-
20 g	317-050-100	28,-
50 g	317-060-100	28,-
100 g	317-070-100	28,-
200 g	317-080-100	28,-
500 g	317-090-100	31,-
1 kg	317-110-100	35,-
2 kg	317-120-100	44,-
5 kg	317-130-100	66,-
10 kg	317-140-100	89,-
20 kg	317-150-100	340,-
50 kg	317-160-100	415,-



- Box material: Wood.
Suitable for individual weights
KERN No. 337, 347, 357, 367

Wooden box
for individual weights F2 - M3

For weights	KERN	€
mg	338-090-200	14,-
1 g	337-010-200	14,-
2 g	337-020-200	14,-
5 g	337-030-200	14,-
10 g	337-040-200	14,-
20 g	337-050-200	14,-
50 g	337-060-200	15,-
100 g	337-070-200	15,-
200 g	337-080-200	16,-
500 g	337-090-200	19,-
1 kg	337-110-200	24,-
2 kg	337-120-200	27,-
5 kg	337-130-200	47,-
10 kg	337-140-200	61,-
20 kg	337-150-200	220,-
50 kg	337-160-200	345,-



Made specially for you

Cases/boxes for individual weight sets

Individual weight sets:

You can make up your own „tailor-made“ individual weight sets yourself.

KERN will make 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:

1 x 50 g, 2 x 100 g, 1 x 500 g, 2 x 1 kg, 1 x 2 kg.

The correct individual box is

KERN No. 313-080-400 (plastic) or

KERN No. 315-070-100 (wood).



Plastic case
for weight classes **E1, E2, F, M**,
not appropriate for cast iron weights

KERN	For weights	€
313-050-400	≤ 500 g	82,-
313-080-400	≤ 5 kg	180,-



Wooden box
for weight classes **E1, E2 and F1**

KERN	For weights	€
315-040-100	≤ 200 g	124,-
315-060-100	≤ 1 kg	185,-
315-070-100	≤ 2 kg	245,-
315-080-100	≤ 5 kg	350,-
315-090-100	≤ 10 kg	465,-



Wooden box
for weight classes **F2, M1, M2 and M3**

KERN	For weights	€
335-040-200	≤ 200 g	58,-
335-050-200	≤ 500 g	61,-
335-060-200	≤ 1 kg	108,-
335-070-200	≤ 2 kg	134,-
335-080-200	≤ 5 kg	210,-
335-090-200	≤ 10 kg	300,-

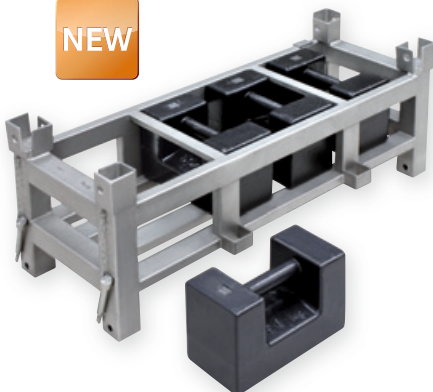


Aluminium case

for safe storage and transportation under harsh industrial conditions.
Ideal for test weights of accuracy classes E2–M3. Please ask for details.

Weight carriers for rectangular weights or other test weights

NEW



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 balance in one go, saving you 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.

16 DKD calibration service

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DKD calibration service	153
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DKD calibration service for balances	154
DKD calibration service for test weights	155
Recalibration of test weights	156
Verification prices for test weights	157



The DKD = **Deutscher Kalibrierdienst** (German Calibration Service) is responsible for measuring „correctly“ in accordance with legally binding international standards. It is part of DAkkS = Deutsche Akkreditierungsstelle (German accreditation organisation) which was founded in Germany. The basis is the European range of standards DIN EN ISO/IEC 17 000 for conformity assessment, in particular the accreditation standard 17 025, which governs the organisation of a calibration laboratory, as well as basic metrological technical requirements.

Only an accredited calibration laboratory can issue DKD calibration certificates. This defines not only the measuring method, but also gives information on tracing the test means to a national standard and the relevant measuring uncertainty is given.

You are certified to ...

ISO 9001, QS 9000, GLP, GMP, TS16949



You need ...

to control your measuring equipment



Our solution ...

DKD calibration certificate (Traceability, Measuring uncertainty, Internationally recognised)

KERN – Precision is our business

The KERN DKD 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 DKD calibration laboratories for balances, test weights and force-measurement in Europe.

Thanks to the high level of automation, we can carry out DKD 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 further, or why not visit us on the web at www.kern-lab.com

Range of services:

- DKD calibration of balances with a maximum load of up to 6000 kg
- DKD calibration of weights in the range of 1 mg – 500 kg
Calibrations can be carried out in the following classes: E1, E2, F1, F2, M1, M2 and M3.

- Database supported management of checking equipment and reminder
- In combination with periodic recalibration we can offer you a wide range of further services:
 - Reconditioning of weights, e.g. cast weights (sand blasting, painting, adjustment,..)
 - Collection service with special transport packaging, even for heavy weights
 - Volume determination for weights of accuracy class E1
 - Measuring of sensitivity (magnetic characteristics)
- Calibration of force-measuring devices
- DKD calibration certificates in the following languages
D, GB, F, I, E, NL, PL

DKD calibration

Why? DKD 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, ...)

What? Any checking equipment in proper condition can be DKD 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 DKD 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 in Germany, for example the DKD (German calibration service)

When? The operator controls the use of checking equipment and periodic recalibration time intervals themselves

DKD calibration certificate for balances (extract)
 Further details on the internet

DEUTSCHER KALIBRIERDIENST DKD
 Kalibrierlaboratorium / Calibration laboratory

Akkreditiert durch die / accredited by the
 Akkreditierungsstelle des Deutschen Kalibrierdienstes

KERN
 WÄGEGEN - GEWICHTE - BALANCES - WEIGHTS
 KERN & Sohn GmbH
 Alteste europäische Feinwaagen und Gewichtefabrik seit 1844
 Oldest European Manufacturer of Precision Balances since 1844

DKD-K-11801

Kalibrierschein / Calibration Certificate
 Kalibrierzeichen / Calibration mark

B-60
DKD-K-11801
10-01

Gegenstand / Object: Präzisionswaage / Precision Balance

Hersteller / Manufacturer: KERN & Sohn GmbH, Ziegelei 1, 72336 Balingen, GERMANY

Typ / Type: PBJ 620-3M

Fabrikate/Serien-Nr. / Serial number: W1012345

Auftraggeber / Customer: Max Mustermann GmbH, Teststr. 1, 42446 Musterstadt

This calibration certificate documents the following:

Messergebnisse / Measurement results

1. Wiederholbarkeit / Repeatability

Messung / Measurement	Prüflast / Load	Waagenanzeige / Indication
No. 1	500 g	499,999 g
No. 2	500 g	499,999 g
No. 3	500 g	500,000 g
No. 4	500 g	500,000 g
No. 5	500 g	500,000 g

Standardabweichung: s = 0,0006 g
 Standard deviation:

2. Richtigkeit / Linearity

Prüflast / Load	Waagenanzeige / Indication
100 g	100,000 g
200 g	200,000 g
300 g	300,001 g
500 g	500,000 g
600 g	600,001 g

3. Außermitte Belastung / Eccentricity

Position / Position	Prüflast / Load	Waagenanzeige / Indication
No. 1	500 g	500,000 g
No. 2	500 g	499,999 g
No. 3	500 g	500,001 g
No. 4	500 g	500,001 g
No. 5	500 g	500,001 g

Messunsicherheit U / Measuring uncertainty U

Last / Load	Abweichung / Error	Erweiterungsfaktor k / Coverage factor	Unsicherheit / Uncertainty	relative Unsicherheit / Rel. uncertainty
100 g	0,000 g	2,38	0,0016 g	0,00154 %
200 g	0,000 g	2,32	0,0016 g	0,00078 %
300 g	0,001 g	2,24	0,0017 g	0,00053 %
500 g	0,000 g	2,12	0,0018 g	0,00036 %
600 g	0,001 g	2,06	0,0020 g	0,00032 %

Darstellung im Diagramm / Representation as chart:

Verwendungsgenauigkeit G / Usage accuracy G

Diagramm der Verwendungsgenauigkeit / Graph of usage accuracy:

$$G = 0,0013 \text{ g} + 8,72 \cdot 10^{-6} \cdot m_w$$

$m_w =$ Nettoanzeige bei zunehmender Belastung / net display with increasing load

rel. Meßunsicherheit / rel. measuring uncertainty

Mindestinwaage / Minimum weight of sample

The advantages of using KERN in-house calibration

You send your balance to us.
 To be recommended with new equipment and for balances which can be transported economically, as the travel costs for on-site calibration are then not applicable.

The advantages of using KERN on-site calibration

We visit you.
 In Germany, KERN has access to a comprehensive network of employees at the KERN DKD calibration laboratory, who can carry out on-site calibration of scales up to 6000 kg.

The calibration service is **independent of the brand.**
 Preliminary maintenance work by agreement.
 Prices for on-site calibration on request.



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 test weights every 6 months if they are used intensively, and every 12 months with normal use.

Initial calibration and recalibration of scales at the KERN factory	KERN	Price € excl. of VAT ex works
Weighing range		
Analytical balances		
Max ≤ 5 kg	963-101	125,-
Max ≤ 5 kg	963-102	160,-
Precision balances/Industrial scales		
Max ≤ 5 kg	963-127	65,-
Max > 5 kg - 50 kg	963-128	80,-
Max > 50 kg - 350 kg	963-129	95,-
Max > 350 kg - 1500 kg	963-130	150,-
Max > 1500 kg - 2900 kg*	963-131	200,-
Max > 2900 kg - 6000 kg*	963-132	400,-
Preparation for recalibration (cleaning, adjustment, function test)	969-003R	20,-
Additional services:		
Minimum weight of sample (for details see internet)	969-103	10,-
DKD Express service with delivery time 48 hours (only on initial purchase, details see p. 156)	962-116	50,-/scale
Express shipping: Express supplement for guaranteed delivery on the next working day (if ready for shipment before 12:00 noon)		40,-/parcel

* floor scales only. Please ask for further details.

- Official document
- Item to be calibrated
- Traceability, see page 159
- Identification/Applicant
- Metrological component
- Measuring uncertainty, see page 159
- Usage accuracy, see page 159
- Minimum weight of sample

DKD calibration certificate for test weights (extract)

Further details on the internet

DEUTSCHER KALIBRIERDIENST DKD

Kalibrierlaboratorium / Calibration laboratory **1**

Akkreditiert durch die / accredited by the
Akkreditierungsstelle des Deutschen Kalibrierdienstes

KERN
WAAGEN · GEWICHTE · BALANCES · WEIGHTS
KERN & Sohn GmbH

Älteste europäische Feinwaagen und Gewichtefabrik seit 1844
Oldest European Manufacturer of Precision Balances since 1844

Kalibrierschein
Calibration certificate

Kalibrierzeichen
Calibration mark

Gegenstand
Object

Hersteller
Manufacturer

Typ
Type

Fabrikate/Serien-Nr.
Serial number

Auftraggeber
Customer

Gewichtssatz, 1 mg - 500 g
Klasse E2
Set of weights, 1 mg - 500 g
Class E2

KERN & Sohn GmbH
Ziegelei 1
D-72336 Balingen
Germany

313-054

G123456789

Max Mustermann GmbH
Teststr. 1
42446 Musterstadt
Deutschland

Dieser Kalibrierschein dokumentiert die Rückführung auf nationale Normale zur Darstellung der Einheiten in Übereinstimmung mit dem Internationalen Einheitensystem (SI).
Der DKD ist Unterzeichner der multilateralen Übereinkommen der European cooperation for Accreditation (EA) und der International Laboratory Accreditation Cooperation (ILAC) zur gegenseitigen Anerkennung der Kalibrierscheine. Für die Einhaltung eines angemessenen Frist zur Wiederholung der Kalibrierung ist der Benutzer verantwortlich.

This calibration certificate documents the traceability to national standards, which realize the units of measurement according to the

G1-236
DKD-K-11801
10-02

Umgebungsbedingungen:
Ambient conditions:

Die Kalibrierung wurde bei folgenden Umgebungsbedingungen ausgeführt:
The calibration was carried out under the following ambient conditions:

	von from	bis to
Temperatur / °C temperature	24,0	24,9
rel. Luftfeuchte / % relative humidity	49,3	52,4
Luftdruck / mbar air pressure	952,3	953,7

Material / Angenommene Dichte:
Material / Assumed density:

Nennwert nominal value	Dichte density	Unsicherheit uncertainty	Material material	Form shape
1 mg - 5 mg	2700 kg/m³	130 kg/m³	Aluminium	Plättchen Flat sheet
10 mg - 500 mg	8600 kg/m³	170 kg/m³	Neusilber German silver	Plättchen Flat sheet
1 g - 500 g	8000 kg/m³	100 kg/m³	Edelstahl Stainless steel	Knopf Cylindrical form

DEUTSCHER KALIBRIERDIENST DKD

Kalibrierlaboratorium / Calibration laboratory

Akkreditiert durch die / accredited by the
Akkreditierungsstelle des Deutschen Kalibrierdienstes

Seite 5 zum Kalibrierschein vom 19.01.2011
Page 5 of the calibration certificate dated

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10-02

Messergebnisse:
Measurement results:

Nennwert nominal value	Kennzeichnung marking	konventioneller Wägewert conventional mass	Unsicherheit k=2 uncertainty	Fehlergrenze max. perm. error	Klasse* class*
1 mg		1 mg - 0,002 mg	0,002 mg	± 0,006 mg	E2 ✓
2 mg		2 mg + 0,001 mg	0,002 mg	± 0,006 mg	E2 ✓
2 mg	*	2 mg - 0,002 mg	0,002 mg	± 0,006 mg	E2 ✓
5 mg		5 mg - 0,001 mg	0,002 mg	± 0,006 mg	E2 ✓
10 mg		10 mg + 0,000 mg	0,003 mg	± 0,008 mg	E2 ✓
20 mg		20 mg - 0,002 mg	0,003 mg	± 0,010 mg	E2 ✓
20 mg	*	20 mg + 0,006 mg	0,003 mg	± 0,010 mg	E2 ✓
50 mg		50 mg - 0,007 mg	0,004 mg	± 0,012 mg	E2 ✓
100 mg		100 mg - 0,000 mg	0,005 mg	± 0,016 mg	E2 ✓
200 mg		200 mg + 0,003 mg	0,007 mg	± 0,020 mg	E2 ✓
200 mg	*	200 mg + 0,007 mg	0,007 mg	± 0,020 mg	E2 ✓
500 mg		500 mg + 0,007 mg	0,008 mg	± 0,025 mg	E2 ✓
1 g		1 g - 0,008 mg	0,010 mg	± 0,03 mg	E2 ✓
2 g		2 g + 0,015 mg	0,013 mg	± 0,04 mg	E2 ✓
2 g	*	2 g + 0,012 mg	0,013 mg	± 0,04 mg	E2 ✓
5 g		5 g + 0,005 mg	0,017 mg	± 0,05 mg	E2 ✓
10 g		10 g - 0,005 mg	0,020 mg	± 0,06 mg	E2 ✓
20 g		20 g - 0,043 mg	0,027 mg	± 0,08 mg	E2 ✓
20 g	*	20 g - 0,019 mg	0,027 mg	± 0,08 mg	E2 ✓
50 g		50 g - 0,00 mg	0,03 mg	± 0,10 mg	E2 ✓
100 g		100 g - 0,03 mg	0,05 mg	± 0,16 mg	E2 ✓
200 g		200 g - 0,03 mg	0,10 mg	± 0,3 mg	E2 ✓
200 g	*	200 g - 0,08 mg	0,10 mg	± 0,3 mg	E2 ✓
500 g		500 g - 0,39 mg	0,27 mg	± 0,8 mg	E2 ✓

➔ For more information on this subject, please see our KERN DKD calibration service brochure - just request your free copy.

Calibration of test weights

Calibrated measuring equipment requires calibrated checking equipment. For balances, these are calibrated test weights, also called "standard weights".

We calibrate test weights...

- in all cases with permissible error limits E1-M according OIML R111-2004 (for tolerance tables, see page 135), in sizes 1 mg to 500 kg.
- with free nominal value
- Newtons (N)
- independent of design (special designs)

The advantages of using KERN in-house calibration

You send your test weights to us.

- Excellent price performance ratio
- The quickest process time
 - standard DKD service: 4 working days
 - DKD Express service: 48 hours (new weights)
- The most modern calibration methods with robot controlled comparators) allow the most accurate calibration results and fastest throughput time
- KERN DKD 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, with our parcel service, we can also provide a pick-up and collection service

The advantages of using KERN on-site calibration

We would be pleased to visit you within Germany and carry out the calibration of your reference standards to OIML classes M1 to M3, 10 to 50 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 6 months if they are used intensively, and every 12 months with normal use.
- We would be pleased to monitor your recalibration schedule

- 1 Official document
- 2 Item to be calibrated
- 3 Traceability, see page 159
- 4 Identification/Applicant
- 5 Environmental conditions
- 6 Metrological component
- 7 Conventional mass
- 8 Measuring uncertainty, see page 159

Recalibration price of test weights

Class acc. OIML R111-2004	E1 with volume determination		E1 without volume determination		E2		F1 / F2 * only F2		M1 / M2 / M3		
	Weight value: ↓	KERN	Price € excl. of VAT	KERN	Price € excl. of VAT	KERN	Price € excl. of VAT	KERN	Price € excl. of VAT	KERN	Price € excl. of VAT
	1 mg	-	-	962-251R	50,-	962-351R	24,-	962-451R	17,-	962-651R	14,-
	2 mg	-	-	962-252R	50,-	962-352R	24,-	962-452R	17,-	962-652R	14,-
	5 mg	-	-	962-253R	50,-	962-353R	24,-	962-453R	17,-	962-653R	14,-
	10 mg	-	-	962-254R	50,-	962-354R	24,-	962-454R	17,-	962-654R	14,-
	20 mg	-	-	962-255R	50,-	962-355R	24,-	962-455R	17,-	962-655R	14,-
	50 mg	-	-	962-256R	50,-	962-356R	24,-	962-456R	17,-	962-656R	14,-
	100 mg	-	-	962-257R	50,-	962-357R	24,-	962-457R	17,-	962-657R	14,-
	200 mg	-	-	962-258R	50,-	962-358R	24,-	962-458R	17,-	962-658R	14,-
	500 mg	-	-	962-259R	50,-	962-359R	24,-	962-459R	17,-	962-659R	14,-
	1 g	963-231	191,-	962-231R	50,-	962-331R	24,-	962-431R	17,-	962-631R	14,-
	2 g	963-232	191,-	962-232R	50,-	962-332R	24,-	962-432R	17,-	962-632R	14,-
	5 g	963-233	191,-	962-233R	50,-	962-333R	24,-	962-433R	17,-	962-633R	14,-
	10 g	963-234	191,-	962-234R	50,-	962-334R	24,-	962-434R	17,-	962-634R	14,-
	20 g	963-235	191,-	962-235R	50,-	962-335R	24,-	962-435R	17,-	962-635R	14,-
	50 g	963-236	191,-	962-236R	50,-	962-336R	24,-	962-436R	17,-	962-636R	14,-
	100 g	963-237	191,-	962-237R	50,-	962-337R	31,-	962-437R	19,-	962-637R	15,-
	200 g	963-238	191,-	962-238R	50,-	962-338R	31,-	962-438R	19,-	962-638R	15,-
	500 g	963-239	191,-	962-239R	50,-	962-339R	31,-	962-439R	19,-	962-639R	15,-
	1 kg	963-241	191,-	962-241R	50,-	962-341R	31,-	962-441R	19,-	962-641R	15,-
	2 kg	963-242	465,-	962-242R	62,-	962-342R	39,-	962-442R	24,-	962-642R	16,-
	5 kg	963-243	465,-	962-243R	62,-	962-343R	39,-	962-443R	24,-	962-643R	16,-
	10 kg	963-244	465,-	962-244R	62,-	962-344R	39,-	962-444R	24,-	962-644R	16,-
	20 kg	963-245	1100,-	962-245R	560,-	962-345R	50,-	962-445R	27,-	962-645R	21,-
	50 kg	963-246	1300,-	962-246R	630,-	962-346R	62,-	962-446R	38,-	962-646R	23,-
	100 kg	-	-	-	-	-	-	962-591R*	110,-	962-691R	60,-
	200 kg	-	-	-	-	-	-	962-592R*	110,-	962-692R	60,-
	500 kg	-	-	-	-	-	-	962-593R*	110,-	962-693R	60,-
	1 mg - 500 mg	-	-	962-250R	335,-	962-350R	180,-	962-450R	96,-	962-650R	60,-
	1 mg - 50 g	963-201	1060,-	962-201R	540,-	962-301R	300,-	962-401R	160,-	962-601R	100,-
	1 mg - 100 g	963-202	1160,-	962-202R	560,-	962-302R	322,-	962-402R	170,-	962-602R	106,-
	1 mg - 200 g	963-203	1340,-	962-203R	610,-	962-303R	366,-	962-403R	190,-	962-603R	118,-
	1 mg - 500 g	963-204	1430,-	962-204R	640,-	962-304R	388,-	962-404R	200,-	962-604R	124,-
	1 mg - 1 kg	963-205	1520,-	962-205R	670,-	962-305R	410,-	962-405R	210,-	962-605R	130,-
	1 mg - 2 kg	963-206	1980,-	962-206R	720,-	962-306R	470,-	962-406R	240,-	962-606R	144,-
	1 mg - 5 kg	963-207	2430,-	962-207R	740,-	962-307R	500,-	962-407R	255,-	962-607R	151,-
	1 mg - 10 kg	963-208	2870,-	962-208R	770,-	962-308R	530,-	962-408R	270,-	962-608R	158,-
	1 g - 50 g	963-215	760,-	962-215R	235,-	962-315R	120,-	962-415R	64,-	962-615R	40,-
	1 g - 100 g	963-216	850,-	962-216R	260,-	962-316R	142,-	962-416R	74,-	962-616R	46,-
	1 g - 200 g	963-217	1030,-	962-217R	310,-	962-317R	186,-	962-417R	94,-	962-617R	58,-
	1 g - 500 g	963-218	1120,-	962-218R	335,-	962-318R	208,-	962-418R	104,-	962-618R	64,-
	1 g - 1 kg	963-219	1220,-	962-219R	360,-	962-319R	230,-	962-419R	114,-	962-619R	70,-
	1 g - 2 kg	963-220	1760,-	962-220R	410,-	962-320R	290,-	962-420R	144,-	962-620R	84,-
	1 g - 5 kg	963-221	2210,-	962-221R	435,-	962-321R	320,-	962-421R	159,-	962-621R	91,-
	1 g - 10 kg	963-222R	2660,-	962-222R	465,-	962-322R	350,-	962-422R	174,-	962-622R	98,-

Additional costs for preparation, overhaul and adjustment before the calibration	KERN	Price € excl. of VAT
Preparation of weights (e.g. cleaning, etc.)		
Single weight	969-001R	3,-
Weight set	969-002R	16,-
Subsequent services are carried out after confirmation		
Continued overhaul of weights (e.g. wet-cleaning, markings, repair, special packaging, adjustment E1, E2 ...)	969-005R	T & M basis
Adjustment, per weight (only available for weights with adjustment chamber (F1-M3))	969-010R	12,-
Second calibration after adjustment or substitution, per weight		
Class E1	969-210R	40,-
Class E1 incl. volume determination	969-211R	80,-
Class E2	969-310R	14,-
Class F1/F2	969-410R	14,-
Class M1-M3	969-610R	14,-
Testing of magnetic properties according to OIML R111-2004, per weight	972-000	12,-

KERN DKD-Express Service

DKD standard service Class E2-M3	4 working days
DKD standard service Class E1, 1mg-500mg, and recalibration 1g-10kg with a known volume	15 working days
Class E1, 1g-1kg, incl. volume determination	25 working days
Class E1, ≥ 2kg, incl. volume determination	40 working days

DKD express service in 48 hours
except for class E1

- Urgent order is received at KERN by 12:00 noon at the latest
- Ready for shipping at KERN on the next working day but on, at 12:00 noon
- Return by standard parcel service or express shipping
- Additional cost for DKD Express Service, for each KERN test weight KERN 962-115 € 20,-
- For Express shipping, see page 154

Verification prices for test weights

Class acc. → OIML R111-2004	E2 with verification certificate		F1/ F2 with verification certificate		M1/ M3 with verification certificate * only M1	
	Weight value: ↓	KERN	Price excl. of VAT ex works €	KERN	Price excl. of VAT ex works €	KERN
1 mg	952-351	25,-	952-451	18,-	952-651*	15,-
2 mg	952-352	25,-	952-452	18,-	952-652*	15,-
5 mg	952-353	25,-	952-453	18,-	952-653*	15,-
10 mg	952-354	25,-	952-454	18,-	952-654*	15,-
20 mg	952-355	25,-	952-455	18,-	952-655*	15,-
50 mg	952-356	25,-	952-456	18,-	952-656*	15,-
100 mg	952-357	25,-	952-457	18,-	952-657*	15,-
200 mg	952-358	25,-	952-458	18,-	952-658*	15,-
500 mg	952-359	25,-	952-459	18,-	952-659*	15,-
1 g	952-331	25,-	952-431	18,-	952-631	15,-
2 g	952-332	25,-	952-432	18,-	952-632	15,-
5 g	952-333	25,-	952-433	18,-	952-633	15,-
10 g	952-334	25,-	952-434	18,-	952-634	15,-
20 g	952-335	25,-	952-435	18,-	952-635	15,-
50 g	952-336	25,-	952-436	18,-	952-636	15,-
100 g	952-337	33,-	952-437	20,-	952-637	16,-
200 g	952-338	33,-	952-438	20,-	952-638	16,-
500 g	952-339	33,-	952-439	20,-	952-639	16,-
1 kg	952-341	33,-	952-441	20,-	952-641	16,-
2 kg	952-342	41,-	952-442	25,-	952-642	17,-
5 kg	952-343	41,-	952-443	25,-	952-643	17,-
10 kg	952-344	41,-	952-444	25,-	952-644	17,-
20 kg	952-345	53,-	952-445	28,-	952-645	22,-
50 kg	952-346	65,-	952-446	40,-	952-646	24,-
100 kg	-	-	952-591	116,-	952-691	63,-
200 kg	-	-	952-592	116,-	952-692	63,-
500 kg	-	-	952-593	116,-	952-693	63,-
1 mg - 500 mg	952-350	189,-	952-450	101,-	952-650*	63,-
1 mg - 50 g	952-301	315,-	952-401	168,-	952-601*	105,-
1 mg - 100 g	952-302	340,-	952-402	179,-	952-602*	111,-
1 mg - 200 g	952-303	385,-	952-403	200,-	952-603*	124,-
1 mg - 500 g	952-304	405,-	952-404	210,-	952-604*	130,-
1 mg - 1 kg	952-305	430,-	952-405	220,-	952-605*	137,-
1 mg - 2 kg	952-306	495,-	952-406	250,-	952-606*	151,-
1 mg - 5 kg	952-307	530,-	952-407	270,-	952-607*	159,-
1 mg - 10 kg	952-308	560,-	952-408	285,-	952-608*	166,-
1 g - 50 g	952-315	126,-	952-415	67,-	952-615	42,-
1 g - 100 g	952-316	149,-	952-416	78,-	952-616	48,-
1 g - 200 g	952-317	195,-	952-417	99,-	952-617	61,-
1 g - 500 g	952-318	220,-	952-418	109,-	952-618	67,-
1 g - 1 kg	952-319	240,-	952-419	120,-	952-619	74,-
1 g - 2 kg	952-220	305,-	952-420	151,-	952-620	88,-
1 g - 5 kg	952-321	335,-	952-421	167,-	952-621	96,-
1 g - 10 kg	952-322	370,-	952-422	183,-	952-622	103,-

KERN verification delivery times	
Standard verification service Class E2-M3	6 working days

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	969-008R	3,-
Weight set	969-009R	16,-

Subsequent services are carried out after confirmation		
Continued overhaul of weights (e.g. wet-cleaning, markings, repair, special packaging, adjustment E2 ...)	969-005R	T & M basis

Adjustment, per weight (only available for weights with adjustment chamber (F1-M3))	969-010R	12,-
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Verification after adjustment or substitution, per weight		
Class E2	969-310R	14,-
Class F1/F2	969-410R	14,-
Class M1/M3	969-610R	14,-

Factory calibration certificates (ISO calibration), prices for initial calibration and recalibration

Checking equipment	DKD/ISO	KERN	Price excl. of VAT ex works €
Force Gauges 300 N, 400 N, 500 N	DKD	963-161R	250,-
force-measuring devices up to 500 N	ISO	961-161R	135,-
force-measuring devices up to 2 KN	ISO	961-162R	165,-
force-measuring devices up to 10 KN	ISO	961-163R	225,-
force-measuring devices up to 14,5 KN	ISO	961-164R	350,-
Hardness testing device in accordance with Leeb testing (Typ D)	ISO	961-131R	120,-
Measuring devices for layer thickness 0 µm - 2000 µm (ferrous or nonferrous)	ISO	961-110R	120,-
Measuring devices for layer thickness 0 µm - 2000 µm (ferrous or nonferrous)	ISO	961-112R	170,-
Ultrasonic material thickness testing device 25 mm - 300 mm	ISO	961-113R	120,-
Mechanical balances (spring balances, ...) Max. load 5 kg	ISO	961-100R	65,-
Mechanical balances Max. load > 5 kg - 50 kg	ISO	961-101R	80,-
Mechanical balances Max. load > 50 kg - 350 kg	ISO	961-102R	95,-
Mechanical balances Max. load > 350 kg - 1500 kg	ISO	961-103R	150,-

Accuracy classes for test weights

E, F, M → *Error limit classes.*

Adjusting of measuring equipment

Precise setting of a measure 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.**

Animal weighing program

When the animal moves during the weighing process, a stable average value is obtained by using the HOLD key. This value remains „frozen“ until the HOLD key is pressed again.

→ *Vibration-free weighing*

Application accuracy

Allowance for → *measuring uncertainty* during practical use of a balance. Is given in the appendix to the DKD calibration certificate.

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.

Capacity display:

a bar lights up to show the currently selected and optionally available weighing range.

Calibration Certificate DKD/DaAkkS



Documentation of measured characteristics of balances or test weights and of traceability to the national standard. Additional price.

Calibration of measuring equipment:

determination of the precision of a measure 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 or verification



DKD-Calibration is possible for every balance in perfect condition. DKD calibration 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. **M** Verifying is only possible for → *type-approved balances* marked with the green **M** → *Verification*

Conformity evaluation

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 9000 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 that you have measuring equipment which is working accurately. DIN/EN/ISO 9001, December Edition 2008 states in section 7.6 „Guidance of monitoring and measuring equipment“, that measuring equipment must be calibrated at defined intervals and before use. The measuring devices and measuring standards needed to do this must:

- be traced back to international or → *national standards*.

- their measuring uncertainty must be known

- they must be marked with a clear identification

- the test must be documented
The → *DKD calibration* fulfils all these requirements.

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.

Data interface / parameters



For the most part RS 232C, bidirectional. For direct connection of a printer or PC to the balance. The interface parameters can be set on the balance keypad. Interface cable, see p. 126.

Density determination

(previously „Specific weight“)

DKD = German Calibration Service

See product group 16 „DKD-Calibration service“

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* ≤ 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].

Dynamic weighing

→ *Filter*

Error limit classes for test weights in accordance with R 111 OIML

For further details, see section 15 „Test weights“

Factory

These options can only be carried out in the 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 maintains the balance. 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 varying influence balances have to be → *adjusted* at the location of use.

IP65 to IP68 protection

See product group - 06 „Stainless steel | IP65...68 protection“.

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 measuring devices for accuracy in accordance with a procedure which is recognised, but not accredited.

ISO/GLP record keeping



Quality Assurance Systems demand record keeping of weighing results and the correct adjusting of the balance giving details of date, time and balance identification. The easiest way of obtaining this documentation is by means of a connected printer.

Linearity/precision

Greatest deviation of the weight display of a balance to the value of the respective test weight in terms of plus and minus over the whole weighing range.

Memory

Balance contains memories, e.g. for item data, weighing data, tare weights etc. → *PLU*

Minimum load Min

Lower limit of the verifiable weighing range. Is marked on the verification plate. The function of the balance is also given below the minimum load.

Net total



= total weight of all components of a mixture without the weight of the tare cup.

Optimisation of counting

→ *Optimisation of reference weight*

Optimisation of reference weight when piece counting

The reference weight is generated automatically several times during the counting process. Increases the counting accuracy.

Percentage determination (example)



Reference weight prior to drying: 50 g = balance display 100 %. After drying 40 g = balance display 80 % absolute (dry mass) or 20 % relative (humidity).

Permissible ambient temperature

Measuring errors are possible with readings either side of the limits. With verified balances this is stated on the identification plate.



Piece counting of single pieces

when weighing e.g. 10 identical pieces; the → *reference quantity* is 10. The balance automatically indicates the average weight per piece. As from now each loading of identical pieces to be counted will be directly indicated as the quantity of pieces. The following applies: **The higher the reference quantity, the higher the counting accuracy.**

PRE-TARE

→ *Automatic taring*

Proof of compatibility

This documents the verification compatibility for combinations of weighing modules such as display devices, load cells and connecting elements.

Quality management system

→ *Control of measuring equipment*

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 keep control over accuracy, → *Control of measuring equipment*

Reference weight (when piece counting)

See product group 08 „counting balances | counting systems“.

Reproducibility (standard deviation)

the measure of conformity in repeat weighing (e.g. balances) subject to the same conditions. Mostly 1 **d** or less. Quality feature.



SC-TECH = Single-Cell Technology

→ *FORCE*. The load cell consists of a single aluminium block, which gives a very high measuring 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.

Tare deduction

→ *Automatic taring*

Taring, automatic (PRE-TARE)

When the tare pan is put in place the balance immediately displays zero. Saves time.

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 6000 g, Tare (= container) 470 g, available weighing range 5530 g.

Test weight, external (previously calibration weight)



for adjusting or checking the balance accuracy → *Adjusting the weighing range*. The external test weight can be DKD calibrated at any time, even afterwards, see product group 16 „DKD-Calibration service“.

Test weight, internal



Like test weight external, but installed in the balance and powered.

T-FORK = Tuning fork principle



A resonating body (like a tuning fork) is electromagnetically 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.

Traceability to the National Standard

ISO 9000 ff requires the correctness of all checking equipment (e.g. test weights) with the official standard in accordance to the defined tolerance. Thereby incorrect measurement is prevented.

Totalising

Various individual weighings are added automatically to aggregate, e.g. all individual weighings of a batch.

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. With increasing weight the uncertainty of measurement rises, see product group 16 „DKD-Calibration Service“

Verification validity for balances

Generally 2 years for all verification categories, for control balances generally 1 year, after expiry the balance has to be reverified.

Verification categories of balances

Class I – Analytical balance (precision balance),
Class II – precision balance,
Class III – industrial scale (commercial scale).

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 green → M. Verification is stipulated by the state and serves as consumer protection.

According to the EU directive 2009/23/EG, balances must be verified 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 the metrological service and stamped with a verification mark. Its accuracy within the framework of permissible standard tolerances is thereby confirmed. EU verification applies to all member states of the EU.

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*

For the preparation of verification it is therefore necessary to advise the location of use and post-code. 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 the verification, therefore it is not sealed. In this case the verification does not depend on the location.

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.

Weighing with tolerance ranges



The lower and upper limiting values are programmed individually. Input is possible in grams, pieces or %. With tolerance checks such as dosing, portion division or grading, the balance displays the value over or under the limits.

Wireless communication

For KERN balances between the platform and display device using the integrated radio module. Range within line of sight depending on the model, approx. 10-20 m.

Price reduction

Already seen it???

In 2013, we're reducing prices on many of our models again. Current models at unbelievably low prices!



Precision balance KB-M

Convenient model at a basic price with EC type approval [M]

Further details → see page 23

only
€ 320,-



Precision balance PKP

Robust laboratory and industrial scale with easy operation thanks to the graphics display

→ Further details see page 24

from
€ 490,-



Precision balance EWB

Verifiable entry level model in the upper laboratory class with EC type approval [M]

Further details → see page 27

from
€ 290,-



Precision balance PLJ-N

Excellent performance, excellent price

→ Further details see page 29

from
€ 490,-



Precision balance PBS/PBJ

Multifunctional laboratory balance with single-cell weighing system and EC type approval [M]

Further details → see page 38

from
€ 790,-



Bench scale FCE

Affordable bench scale – mobile, practical, lightweight

→ Further details see page 58

only
€ 99,-



Bench scale FKB-M

Large, high resolution bench scale with EC type approval [M]

Further details → see page 63

from
€ 490,-



IP-protected bench scale FFN

Robust, space-saving bench scale, protected by stainless steel and IP65

→ Further details see page 70

from
€ 240,-



Stainless steel platform scale SFB

Stainless steel scale with EC-Type Approval [M] and IP65 protection

Further details → see page 72

from
€ 650,-



Price computing scale RFS

High-quality retail scale with integrated receipt printer

→ Further details see page 78

only
€ 460,-



Counting scale CFS

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

Further details → see page 83

from
€ 270,-



Wireless platform scale EOS-F

Wireless communication between the platform and display device for maximum flexibility

Further details → see page 93

only
€ 430,-

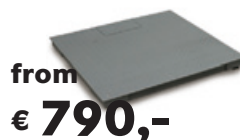


Floor scale BFS

Robust floor scale with piece-counting function

Further details → see page 104

from
€ 890,-



Weighing bridge KFP

Weighing bridge with lacquered non-slip steel chequer plate, to construct your own weighing system

Further details → see page 114

from
€ 790,-



Pallet scale KFU

Well-priced U-shaped weighing bridge to construct your own weighing system

Further details → see page 115

from
€ 660,-



Pallet truck scale VHT

Professional pallet truck scale with counting function, integrated printer and removable battery pack

Further details → see page 121

only
€ 1.900,-



Hanging scale HCN

The handy scale for higher loads, with IP65

Further details → see page 124

from
€ 85,-



Crane scale HUM

Ideal for the industry, up to 3 t

Further details → see page 127

from
€ 590,-

SALE % SALE % SALE %

Sale – We are clearing out our stocks!

Any number of special offers and deals are waiting on you - so act quickly!

ONLY WHILE STOCKS LAST!

Note: You can find even more great deals on our Website under the heading „Special offers“. In addition to sell-out models, you can also find unbeatably cost-effective devices with slight signs of wear. Of course, they all have a 2-year warranty.



Precision balance PLS 6200-2DA
Weighing range: 4200 g | 6200 g
Read-out: 0,01 g | 0,1 g
www.kern-sohn.com/en/PLS_PLJ



Bench scale FKB 30K5DA
Weighing range: 15 kg | 30 kg
Read-out: 5 g | 10 g
www.kern-sohn.com/en/FKB-A



Bench scale FCB 24K 10
Weighing range: 24 kg
Read-out: 10 g
www.kern-sohn.com/en/FCB



Bench scale FKB 60K5A
Weighing range: 60 kg
Read-out: 5 g
www.kern-sohn.com/en/FKB-A



Bench scale FKB 60K10DA
Weighing range: 30 kg | 60 kg
Read-out: 10 g | 20 g
www.kern-sohn.com/en/FKB-A



Platform scale ECB 10K10
Weighing range: 10 kg
Read-out: 10 g
www.kern-sohn.com/en/ECB



Platform scale NDE 3K1IP
Weighing range: 3 kg
Read-out: 1 g
www.kern-sohn.com/en/NDE



Platform scale NDE 15K5IP
Weighing range: 15 kg
Read-out: 5 g
www.kern-sohn.com/en/NDE



**Platform with IP65
KTP 6V20NLM**
Weighing range: 6 kg
www.kern-sohn.com



Crane scale HTS 6T2IP
Weighing range: 6 t
Read-out: 2 kg
www.kern-sohn.com/en/HTS



Crane scale HTS 10T5IP
Weighing range: 10 t
Read-out: 5 kg
www.kern-sohn.com/en/HTS

Retailer information



Sales conditions

- **All prices are valid as of January 1st 2013** until a new version of the KERN catalogue is released. In Europe, all prices do not include the applicable V.A.T.
- **At KERN there is no minimum order value.** For orders less than € 15.00 there is no re-sale discount available. A minimum fee of € 15.00 will be charged for orders less than € 15.00 (net).
- **Delivery Conditions:** we supply ex works Balingen, i.e. the transport costs are invoiced. Any goods supplied, remain KERN's property until complete payment for the goods sold has been received.



Delivery is usually via courier service.



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

- **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, Martin Sauter.
For the full Terms and Conditions, please refer to the website.
- **Price changes and product changes** are likely in individual cases due to product modifications as well as error.
- **Sale or return:** within 14 days of purchase. Not valid for custom processes, such as, for example, special orders or test services such as, for example, calibration, verification, etc.
- **Warranty:** 3 years.
2 years for products with list price ≤ € 400.00
Does not apply to consumables such as batteries, rechargeable battery packs, etc.



Services

- **Free delivery:** all orders from dealers or through the KERN online shop with an order value over € 150.00 (list price and parcel shipment, within the EU, with our parcel service, no pallet shipment) are delivered free of charge
- **3% web discount:** Additional discount for orders from the KERN online shop (only in combination with KERN e-invoice, please ask for details)
- **KERN DirectCash:** The quick, 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 this procedure.



After-Sales-Service

- **Repair services** 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 on a new device:**
if repair costs exceed the current value of the defective device, a new device will be offered at a discount price. This offer is valid only up to 2 years after warranty expiration.
- **Spare parts service** within 48 hours, transportation costs are additional.



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 for your marketing activities free of charge (100 pcs.), larger quantities on request. On demand, your company logo and address can be printed on the back of the KERN catalogue free of charge (100 pcs.), larger quantities on request. In this way you have your own individual marketing tool.
The KERN catalogue branch prospectuses are available in the following languages: D, GB, F, I, E, NL, PT, RUS.

Further details, see page 2.



Important notice

Explosion hazard or humidity

Our balances are not suitable for rooms with explosion hazard or extreme humidity. Please observe relevant electrical instructions.

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.

See the glossary, page 158 → „Adjusting“.