GB

KERN®

PRECISION BALANCES

PROFESSIONAL
MEASURING

2020

KERN Pictograms

Internal adjusting:
Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)

Adjusting program CAL:
For quick setting up of the balance's accuracy. External adjusting weight required

Easy Touch:
Suitable for the connection, data transmission and control through PC, tablet or smartphone

Memory:
Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.

Alibi memory:
Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard. For details see page 223

Data interface RS-232:
To connect the balance to a printer, PC or network

RS-485 data interface:
To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible

USB data interface:
To connect the balance to a printer, PC or other peripherals

Bluetooth* data interface:
To transfer data from the balance to a printer, PC or other peripherals

WLAN data interface:
To transfer data from the balance to a printer, PC or other peripherals

Control outputs (optocoupler, digital I/O):
To connect relays, signal lamps, valves, etc.

Analogue interface:
to connect a suitable peripheral device for analogue processing of the measurements

Interface for second balance:
For direct connection of a second balance

Network interface:
For connecting the scale to an Ethernet network

Wireless data transfer:
between the weighing unit and the evaluation unit using an integrated radio module

KERN Communication Protocol (KCP):
It is a standardized interface command set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems

GLP/ISO log:
The balance displays serial number, user ID, weight, date and time, regardless of a printer connection

GLP/ISO log:
With weight, date and time. Only with KERN printers, see page 171–173

Piece counting:
Reference quantities selectable. Display can be switched from piece to weight

Recipe level A:
The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out

Recipe level B:
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display

Recipe level C:
Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, multiplier function, adjustment of recipe when dosages are exceeded or barcode recognition

Totalising level A:
The weights of similar items can be added together and the total can be printed out

Percentage determination:
Determining the deviation in % from the target value (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:
(Checkweighing) Upper and lower limiting can be programmed individually, e.g. for sorting and dosing. The process is supported by an audible or visual signal, see the relevant model

Hold function:
(Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value

Protection against dust and water splashes IPxx:
The type of protection is shown in the pictogram. For details see page 62

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

Universal mains adapter:
with universal input and optional input socket adapters for
A) EU, CH, GB
B) EU, CH, GB, USA
C) EU, CH, GB, USA, AUS

Mains adapter:
230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available

Power supply:
Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request

Weighing principle: Strain gauges
Electrical resistor on an elastic deforming body

Weighing principle: Tuning fork
A resonating body is electromagnetically excited, causing it to oscillate

Weighing principle: Electromagnetic force compensation
Coil inside a permanent magnet. For the most accurate weighings

Weighing principle: 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

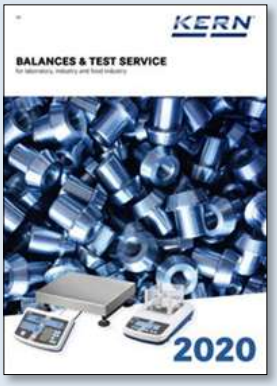
DAkkS calibration possible (DKD):
The time required for DAkkS calibration is shown in days in the pictogram

Package shipment:
The time required for internal shipping preparations is shown in days in the pictogram

Pallet shipment:
The time required for internal shipping preparations is shown in days in the pictogram

*The *Bluetooth*® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by KERN & SOHN GmbH is under license. Other trademarks and trade names are those of their respective owners.

KERN – measuring technology and testing services from a single source

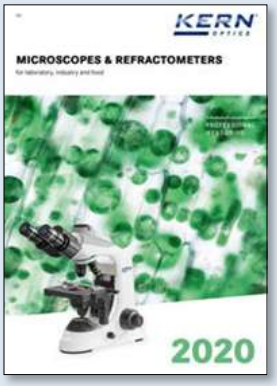


Balances & Test service catalogue

Provides a complete overview of the KERN line of balances, test weights, and services such as verification, calibration, etc.

Medical scales catalogue

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



Microscopes & refractometers catalogue

Extensive range in the area of optical instruments, such as, for example, biological microscopes, stereo microscopes, metallurgical microscopes, polarisation microscopes as well as analogue and digital refractometers.

SAUTER measuring equipment catalogue

Test instruments for industry and commerce, such as force, coating thickness, material thickness and calibration service.

DAkkS calibration service brochure

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

Your advantages

fast

- 24 hours delivery service for products in stock – ordered today, on its way tomorrow
- Sales & service hotline available from 8:00 am to 6:00 pm

reliable

- Up to 3 years warranty
- Precision in weighing technology for more than 175 years

competent

- DAkkS accreditation DIN EN ISO/IEC 17025
- Certified QM system DIN EN ISO 9001
- Authorisation for initial verification by the manufacturer 2014/31/EU
- Medical certifications DIN EN ISO 13485 and 93/42/EWG

versatile

- One-stop shopping: from pocket balances through to 15 t crane balance – everything from one supplier
- Find the product you want at lightning speed with the "Balance Quick-Finder" at www.kern-sohn.com

Order hotline
+49 7433 9933-0

Service hotline
+49 7433 9933-199

Calibration hotline
+49 7433 9933-196

Our team of consultants will assist you
from Monday to Friday
from 8:00 am to 6:00 pm

Online Shop
www.kern-sohn.com

E-mail order
info@kern-sohn.com

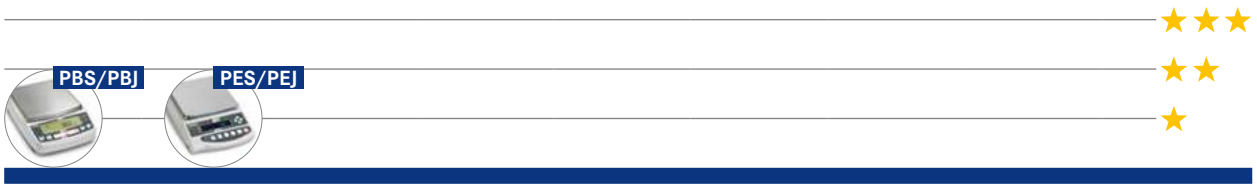
Fax order
+49 7433 9933-146

www.kern-sohn.com
Information on current product availability, product data sheets, user instructions, useful knowledge, technical glossary, images and much for you to download, practical topic areas, which will guide you to the right product in your industry as well as a clever test weight and balance search engine.

Precision balances

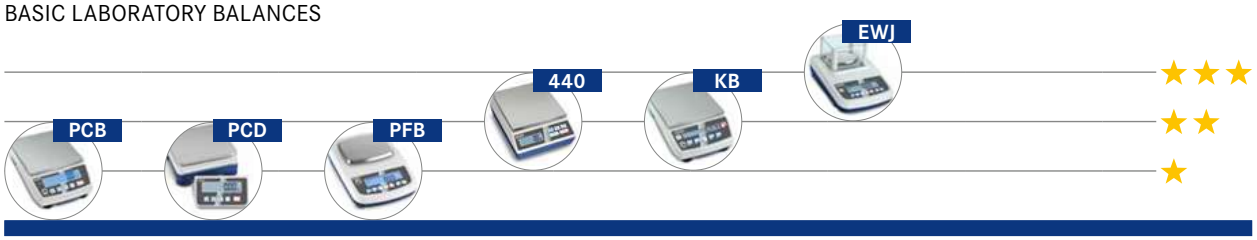
Here you'll find a complete summary of the KERN laboratory scales series and their positioning within the precision scales segment on the basis of application, price-performance ratio and functional volume

PREMIUM LABORATORY BALANCES

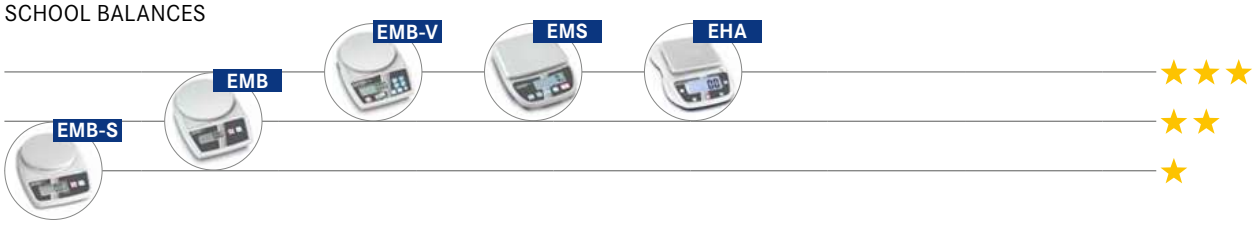


STANDARD LABORATORY BALANCES

BASIC LABORATORY BALANCES



SCHOOL BALANCES



Corinna Klaass
Product specialist Precision balances

Tel. +49 7433 9933-215
Fax +49 7433 9933-29215
klaass@kern-sohn.com

- **Large, shock-resistant stainless steel weighing platel**
- **Particularly flat design**
- **Large, bright LCD display**
- **Simple operation, suitable for school and teaching use**

from €
65,-

HIGHLIGHT

KERN EHA **Page 22**

Precision balances

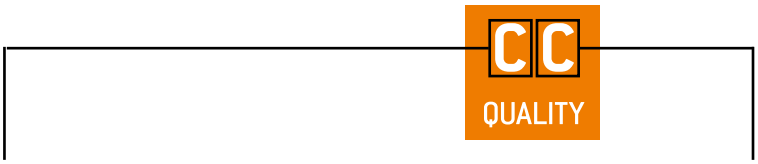
KERN school balances
are entry-level devices in the field of laboratory balances, and they cover basic applications. They feature simple operation and the very best price/performance ratio. In addition they usually can be stacked and can also be operated by battery, as an alternative to mains power, which means that they have the flexibility to be used in different locations.

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

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

KERN premium laboratory balances
are right at the top of the precision balance segment. The numerous equipment features of the standard balances are complemented by high-quality materials with robust, sturdy construction, high-quality, high-performance weighing systems, optimised operating sequences, speed benefits and in some cases, the most modern touchscreen technology. With its touchscreen technology a premium laboratory balance will support your users in their typical procedures. In this way these scales can be operated more efficiently and quickly than devices from other quality classes. In particular these balances are used in demanding laboratory applications and anywhere where the environmental conditions are not ideal because of vibrations or other interference, but where, naturally, the balance is expected to provide accurate weighing results. Another field of application for these balances is the pharmaceutical industry, which is subject to particularly demanding requirements and authorities such as, for example, the FDA (Food and Drug Administration).

In order to make it easier for you to make the right choice of KERN balance, we have included a quality code for each model, which is made up of two quality features and will give you technical data and pictograms in addition to the product features. This will help you to make the decision on the perfect balance for your application:



The stability quality feature
How quickly and sensitively weighing results are displayed? This quality feature on the basis of the information on the housing material and total weight of the balance, the stability quality feature gives you an indication of the types of application for which the balance is particularly well-suited. Due to their low weight, materials such as plastic allows structures which are particularly advantageous for mobile applications. The appeal of models which are used to process high-quality, heavy material, such as, for example, aluminium casting or steel, is their durability and robustness and the fact that they are less susceptible to vibrations. A high level of stability allows rapid, repeatable weighing results.
Categorisation in **A, B, C, best value: C**

The dosing level quality feature
comes from the values for reaction time, stabilisation time and behaviour during long-term weighing procedures. These parameters give information about how well-suited a model is for fine dosing, amongst other functions. In particular with these dosing procedures, the balance performs a balancing act between filtering out disruptive environmental influences, such as, for example, vibrations on the one hand, and the highest level of accuracy as well as rapid display when weighing goods right down to the smallest division [d] on the other hand. In addition this value is printed, whether drift effects influence the continuous measurement in long-term trials. Categorisation into **A, B, C, best value: C**

If you have further questions on the subject of “Which balance will be best for my application?”, then please ask your personal KERN product specialist who will be happy to help you.

Quick-Finder Precision balances

Readability [d] g	Weighing capacity [Max] g	Model KERN	Price excl. of VAT ex works €	Page	Quality code QUALITY	DAYS	M	CAL INT	CAL EXT	MEMORY	RS 232	PCS	TOL	BATT	ACCU
						For an explanation on the pictos, see front flap									
0,001	60	**440-21A**	**350,-**	25	AA	1			●		●	●		●	○
0,001	100	**EMB 100-3**	**195,-**	19	AA	1			●					●	
0,001	100	**PCB 100-3**	**265,-**	24	AA	1			●		●	●		●	○
0,001	120	**PFB 120-3**	**280,-**	26	AA	1			●		●	●			
0,001	120	**KB 120-3N**	**270,-**	27	AA	1			●		●	●			○
0,001	200	**EMB 200-3**	**210,-**	19	AA	1			●					●	
0,001	200	**EMB 200-3V**	**250,-**	20	AA	1			●		●			●	
0,001	200	**PFB 200-3**	**285,-**	26	AA	1			●		●	●			
0,001	220	**EW 220-3NM**	**620,-**	32	AB	1		●	●		●	●	●		○
0,001	220	**EG 220-3NM**	**760,-**	32	BB	1	○	●			●	●	●		○
0,001	240	**KB 240-3N**	**280,-**	27	AA	1			●		●	●			○
0,001	240	**572-30**	**520,-**	29	BA	1			●		●	●			○
0,001	250	**PCD 250-3**	**305,-**	23	AA	1			●		●	●		●	○
0,001	250	**PCB 250-3**	**290,-**	24	AA	1			●		●	●		●	○
0,001	300	**EMS 300-3**	**260,-**	21	AA	1			●			●		●	
0,001	300	**PFB 300-3**	**320,-**	26	BA	1			●		●	●			
0,001	300	**EWJ 300-3**	**450,-**	28	BA	1		●			●	●			○
0,001	300	**EWJ 300-3H**	**490,-**	28	BA	1		●			●	●			○
0,001	300	**572-31**	**530,-**	29	BA	1			●		●	●			○
0,001	350	**PCD 300-3**	**350,-**	23	AA	1			●		●	●		●	○
0,001	350	**PCB 350-3**	**300,-**	24	AA	1			●		●	●		●	○
0,001	360	**KB 360-3N**	**290,-**	27	AA	1			●		●	●			○
0,001	420	**572-32**	**540,-**	29	BA	1			●		●	●			○
0,001	420	**PLS 420-3F**	**590,-**	30	BA	1			●		●	●			
0,001	420	**PLJ 420-3F**	**700,-**	30	BA	1		●			●	●			
0,001	420	**EW 420-3NM**	**690,-**	32	AB	1		●	●		●	●	●		○
0,001	420	**EG 420-3NM**	**830,-**	32	BB	1	○	●			●	●	●		○
0,001	620	**PNS 600-3**	**620,-**	31	BB	1		●	●		●	●			
0,001	620	**PNJ 600-3M**	**740,-**	31	BB	1	○	●			●	●			
0,001	620	**EW 620-3NM**	**770,-**	32	AB	1		●	●		●	●	●		○
0,001	620	**EG 620-3NM**	**930,-**	32	BB	1	○	●			●	●	●		○
0,001	620	**PBS 620-3M**	**1370,-**	33	BC	1			●		●	●	●		
0,001	620	**PBJ 620-3M**	**1610,-**	33	BC	1	○	●			●	●	●		
0,001	620	**PES 620-3M**	**1220,-**	34	BB	1			●		●	●	●		○
0,001	620	**PEJ 620-3M**	**1480,-**	34	BB	1	○	●			●	●	●		
0,001	720	**PLS 720-3A**	**840,-**	30	BC	1			●		●	●			
0,001	720	**PLJ 720-3A**	**980,-**	30	CC	1		●			●	●			
0,001	720	**PLJ 720-3AM**	**980,-**	30	CC	1	○	●			●	●			
0,001	1200	**PLS 1200-3A**	**880,-**	30	BC	1			●		●	●			
0,001	1200	**PLJ 1200-3A**	**1000,-**	30	CC	1		●			●	●			
0,001	2100	**PLJ 2000-3A**	**1650,-**	30	CC	1		●			●	●			
0,01	200	**EMB 200-2**	**125,-**	19	AA	1			●					●	
0,01	200	**PCB 200-2**	**230,-**	24	AA	1			●		●	●		●	○
0,01	200	**440-33N**	**290,-**	25	AA	1			●		●	●		●	○
0,01	400	**440-35N**	**330,-**	25	AA	1			●		●	●		●	○
0,01	500	**EMB 500-2S**	**120,-**	18	AA	1			●					●	
0,01	500	**EHA 500-2**	**90,-**	22	AA	1			●					●	
0,01	600	**EMB 600-2**	**160,-**	19	AA	1			●					●	
0,01	600	**440-35A**	**365,-**	25	AA	1			●		●	●		●	○
0,01	600	**PFB 600-2**	**245,-**	26	BA	1			●		●	●			
0,01	600	**EWJ 600-2SM**	**350,-**	28	BA	1	○	●			●	●			○
0,01	600	**EWJ 600-2M**	**360,-**	28	BA	1	○	●			●	●			○
0,01	650	**KB 650-2N**	**250,-**	27	BA	1			●		●	●			○
0,01	650	**573-34**	**530,-**	29	BA	1			●		●	●			○
0,01	820	**EW 820-2NM**	**540,-**	32	BB	1		●	●		●	●	●		○
0,01	1000	**EMB 1000-2**	**195,-**	19	AA	1			●					●	
0,01	1000	**PCB 1000-2**	**255,-**	24	AA	1			●		●	●		●	○
0,01	1200	**PFB 1200-2**	**245,-**	26	AA	1			●		●	●			
0,01	1200	**KB 1200-2N**	**260,-**	27	BA	1			●		●	●			○
0,01	1600	**572-33**	**490,-**	29	BA	1			●		●	●			○
0,01	2000	**EMB 2000-2**	**205,-**	19	AA	1			●					●	
0,01	2000	**EMB 2000-2V**	**250,-**	20	AA	1			●		●			●	
0,01	2000	**PFB 2000-2**	**260,-**	26	BA	1			●		●	●			
0,01	2000	**KB 2000-2N**	**260,-**	27	BA	1			●		●	●			○
0,01	2200	**EW 2200-2NM**	**660,-**	32	BB	1		●	●		●	●	●		○
0,01	2200	**EG 2200-2NM**	**800,-**	32	BB	1	○	●			●	●	●		○
0,01	2200	**PES 2200-2M**	**840,-**	34	BB	1			●		●	●	●		○
0,01	2200	**PEJ 2200-2M**	**1060,-**	34	CB	1	○	●			●	●	●		
0,01	2400	**KB 2400-2N**	**270,-**	27	BA	1			●		●	●			○
0,01	2400	**572-35**	**500,-**	29	BA	1			●		●	●			○
0,01	2500	**PCD 2500-2**	**295,-**	23	BA	1			●		●	●		●	○

News 2020

● = standard ○ = option

Quick-Finder Precision balances

02

Readability [d] g	Weighing capacity [Max] g	Model KERN	Price excl. of VAT ex works €	Page	Quality code QUALITY	DAYS	M	CAL INT	CAL EXT	MEMORY	RS 232	PCS	TOL	BATT	ACCU
						For an explanation on the pictos, see front flap									
0,01	2500	**PCB 2500-2**	**290,-**	24	BA	1			●		●	●		●	○
0,01	3000	**EMS 3000-2**	**240,-**	21	BA	1			●			●		●	
0,01	3000	**PFB 3000-2**	**285,-**	26	AA	1			●		●	●			
0,01	3000	**EWJ 3000-2**	**430,-**	28	BA	1		●			●	●			○
0,01	3000	**572-37**	**510,-**	29	BA	1			●		●	●			○
0,01	3100	**PLJ 3000-2FM**	**390,-**	30	BA	1		●			●	●			
0,01	3200	**PNS 3000-2**	**580,-**	31	BB	1		●	●		●	●			
0,01	3200	**PNJ 3000-2M**	**705,-**	31	BB	1	○	●			●	●			
0,01	3500	**PCD 3000-2**	**350,-**	23	BA	1			●		●	●		●	○
0,01	3500	**PCB 3500-2**	**300,-**	24	AA	1			●		●	●		●	○
0,01	3600	**KB 3600-2N**	**290,-**	27	BA	1			●		●	●			○
0,01	4200	**572-39**	**520,-**	29	BA	1			●		●	●			○
0,01	4200	**PLS 4200-2F**	**590,-**	30	BA	1			●		●	●			
0,01	4200	**PLJ 4200-2F**	**690,-**	30	BA	1		●			●	●			
0,01	4200	**EW 4200-2NM**	**760,-**	32	BB	1		●	●		●	●	●		○
0,01	4200	**EG 4200-2NM**	**880,-**	32	BB	1	○	●			●	●	●		○
0,01	4200	**PBS 4200-2M**	**1160,-**	33	BC	1			●		●	●	●		
0,01	4200	**PBJ 4200-2M**	**1430,-**	33	CC	1	○	●			●	●	●		
0,01	4200	**PES 4200-2M**	**1000,-**	34	BB	1			●		●	●	●		○
0,01	4200	**PEJ 4200-2M**	**1230,-**	34	CB	1	○	●			●	●	●		
0,01	6200	**PLS 6200-2A**	**860,-**	30	BC	1			●		●	●			
0,01	6200	**PLJ 6200-2A**	**980,-**	30	CC	1		●			●	●			
0,01	6200	**PLJ 6200-2AM**	**980,-**	30	CC	1	○	●			●	●			
0,01	6200	**EW 6200-2NM**	**810,-**	32	BB	1		●	●		●	●	●		○
0,01	6200	**PBS 6200-2M**	**1390,-**	33	BC	1			●		●	●	●		
0,01	6200	**PBJ 6200-2M**	**1730,-**	33	CC	1	○	●			●	●	●		
0,01	6200	**PES 6200-2M**	**1240,-**	34	BB	1			●		●	●	●		○
0,01	8200	**PLS 8000-2A**	**1040,-**	30	BC	1			●		●	●			
0,05	6000	**PFB 6000-2**	**250,-**	26	BA	1			●		●	●			
0,05	10000	**KB 10K0.05N**	**260,-**	27	BA	1			●		●	●			○
0,05	12000	**572-45**	**500,-**	29	BA	1			●		●	●			○
0,05	20000	**572-55**	**530,-**	29	BA	1			●		●	●			○
0,1	200	**EMB 200-1SS05**	**170,-***	18	AA	1			●					●	
0,1	400	**440-43N**	**185,-**	25	AA	1			●		●	●		●	○
0,1	500	**EMB 500-1SS05**	**190,-***	18	AA	1			●					●	
0,1	500	**EMB 500-1**	**55,-**	19	AA	1			●					●	
0,1	500	**EMB 500-1BE**	**55,-**	19	AA	1			●					●	
0,1	500	**EHA 500-1**	**65,-**	22	AA	1			●			●		●	
0,1	1000	**EHA 1000-1**	**65,-**	22	AA	1			●			●			
0,1	1000	**PCB 1000-1**	**185,-**	24	AA	1			●		●	●		●	○
0,1	1000	**440-45N**	**245,-**	25	AA	1			●		●	●		●	○
0,1	1200	**EMB 1200-1**	**78,-**	19	AA	1			●					●	
0,1	2000	**PCB 2000-1**	**215,-**	24	AA	1			●		●	●		●	○
0,1	2000	**440-47N**	**270,-**	25	AA	1			●		●	●		●	○
0,1	3000	**EMB 3000-1S**	**105,-**	18		1			●					●	
0,1	3000	**EMB 3000-1**	**125,-**	19	AA	1			●					●	
0,1	3000	**EHA 3000-1**	**90,-**	22	AA	1			●			●		●	
0,1	4000	**440-49N**	**330,-**	25	AA	1			●		●	●		●	○
0,1	6000	**EMB 6000-1**	**160,-**	19	AA	1			●					●	
0,1	6000	**EMS 6K0.1**	**160,-**	21	AA	1			●			●		●	
0,1	6000	**PCD 6K-4**	**260,-**	23	BA	1			●		●	●		●	○
0,1	6000	**PCB 6000-1**	**240,-**	24	BA	1			●		●	●		●	○
0,1	6000	**440-49A**	**365,-**	25	AA	1			●		●	●		●	○
0,1	6000	**PFB 6000-1**	**225,-**	26	BA	1			●		●	●			
0,1	6000	**EWJ 6000-1SM**	**340,-**	28	BA	1	○	●			●	●			○
0,1	6000	**EWJ 6000-1M**	**350,-**	28	BA	1	○	●			●	●			○
0,1	6500	**KB 6500-1N**	**240,-**	27	BA	1			●		●	●			○
0,1	6500	**573-46**	**530,-**	29	BA	1			●		●	●			○
0,1	8200	**PBJ 8200-1M**	**1420,-**	33	CC	1	○	●			●	●	●		
0,1	10000	**PCD 10K0.1**	**240,-**	23	BA	1			●		●	●		●	○
0,1	10000	**PCB 10000-1**	**245,-**	24	BA	1			●		●	●		●	○
0,1	10000	**KB 10000-1N**	**250,-**	27	BA	1			●		●	●			○
0,1	10000	**572-43**	**490,-**	29	BA	1			●		●	●			○
0,1	12000	**EMS 12K0.1**	**205,-**	21	BA	1			●			●		●	
0,1	12000	**PNS 12000-1**	**570,-**	31	BB	1		●	●		●	●			
0,1	12000	**PNJ 12000-1M**	**705,-**	31	BB	1	○	●			●	●			
0,1	12000	**EW 12000-1NM**	**630,-**	32	BB	1		●	●		●	●	●		○
0,1	15000	**PES 15000-1M**	**1190,-**	34	BB	1			●		●	●	●		○
0,1	16000	**572-49**	**500,-**	29	BA	1			●		●	●			○
0,1	20000	**PLS 20000-1F**	**570,-**	30	BA	1	○		●		●	●			
0,1	24000	**572-57**	**500,-**	29	BA	1			●		●	●			○

☐ News 2020

* Price set of 5 units

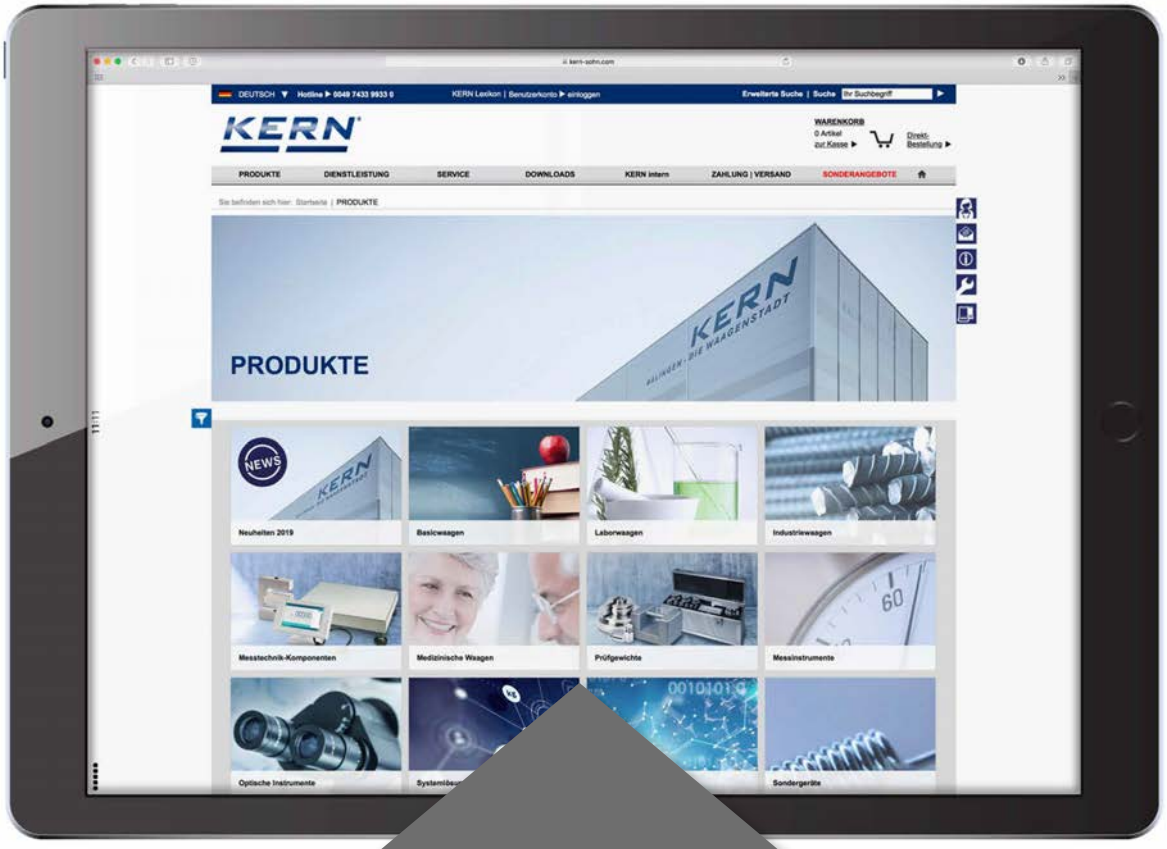
● = standard ○ = option

Quick-Finder Precision balances

Readability [d] g	Weighing capacity [Max] g	Model KERN	Price excl. of VAT ex works €	Page	Quality code QUALITY	DAYS	M	CAL INT	CAL EXT	MEMORY	RS 232	PCS	TOL	BATT	ACCU
						For an explanation on the pictos, see front flap									
0,1	31000	**PES 31000-1M**	**2050,-**	34	CB	1			●		●	●	●		○
1	2000	**EMB 2000-0SS05**	**170,-***	18	AA	1			●					●	
1	2200	**EMB 2200-0**	**57,-**	19	AA	1			●					●	
1	3000	**EHA 3000-0**	**65,-**	22	AA	1			●			●		●	
1	4000	**440-51N**	**160,-**	25	AA	1			●		●	●		●	○
1	5000	**EMB 5000-0SS05**	**190,-***	18	AA	1			●					●	
1	5200	**EMB 5.2K1**	**60,-**	19	AA	1			●					●	
1	6000	**EMS 6K1**	**80,-**	21	AA	1			●			●		●	
1	6000	**PCB 6000-0**	**130,-**	24	BA	1			●		●	●		●	○
1	6000	**440-53N**	**180,-**	25	AA	1			●		●	●		●	○
1	10000	**PCD 10K-3**	**190,-**	23	BA	1			●		●	●		●	○
1	12000	**EMS 12K1**	**85,-**	21	AA	1			●			●		●	
5	5200	**EMB 5.2K5**	**55,-**	19	AA	1			●					●	

☐ News 2020 * Price set of 5 units ● = standard ○ = option

www.kern-sohn.com



Straight to the target!

Get straight to the right product. Use our new topic area search. Here you will quickly find products which suit your particular area of expertise.

AA QUALITY

5× Models with addition -S05

The price breaker!

Cheapest Laboratory balance in the KERN assortment

from €

36,-**

** unit price within the set of 5

The space miracle – stackable school balance for experiment-based teaching

Features

- **Simple and convenient 2-key operation**
- **Tare function** facilitates formulation work
- **Particularly flat design**
- **Secure and non-slip positioning** with rubber feet
- 1 Stackable for space-saving storage
- 2 A practical **transport safety lock** prevents the weighing technology from being overloaded when stacked, stored or during transportation

Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface, plastic, ø 120 mm
- Overall dimensions W×D×H 145×205×45 mm
- Optional battery operation, 2× 1.5 V AA, standard, operating time up to 35 h, AUTO-OFF function to preserve the battery
- Net weight approx. 0,50 kg
- Permissible ambient temperature 5 °C/35 °C
- **Note:** Models with addition -S05 are supplied in 5 pieces. This means that the price given in the table refers to a delivery of 5 items. Cannot be delivered individually. The calibration prices given here refer to calibration of a single balance

Accessories

- **External universal mains adapter**, with universal input and optional input socket adapters for EU, GB, USA, KERN YKA-03N, **€ 32,-**

STANDARD: CAL EXT | UNIT | BATT | DMS | 1 DAY

OPTION: MULTI | DAkkS +3 DAYS

Model KERN	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Quantity delivered (balance)	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DAkkS KERN	 €	Quantity delivered (DAkkS Calibr. Certificate)
EMB 200-1SS05	200	0,1	0,2	± 0,3	5	**170,-*** ↓	963-127	72,-	1
EMB 500-2S NEW	500	0,01	0,02	± 0,03	1	**120,-***	963-127	72,-	1
EMB 500-1SS05	500	0,1	0,2	± 0,3	5	**190,-*** ↓	963-127	72,-	1
EMB 3000-1S	3000	0,1	0,2	± 0,3	1	**105,-***	963-127	72,-	1
EMB 2000-0SS05	2000	1	2	± 3	5	**170,-*** ↓	963-127	72,-	1
EMB 5000-0SS05	5000	1	2	± 3	5	**190,-*** ↓	963-127	72,-	1

NEW New model ↓ Price reduction * Price set of 5 units

AA QUALITY

A

B

1

2

3

4

Entry level laboratory balance with tremendous weighing performance

Features

- **Simple and convenient 2-key operation**
- **Tare function** facilitates formulation work
- **Particularly flat design**
- **Ready for use:** Batteries included
- 1 **Ring-shaped draught shield** standard, only for models with weighing plate size A, weighing space ⌀×H 96×35 mm
- **Hook for underfloor weighing** standard
- 2 **Note:** KERN EMB 500-1BE Black Edition
- **Note:** With the optional auxiliary set for density determination KERN YDB-01 also well suited for school and teaching operation

Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface, plastic, with conductive lacquer
  - A ⌀ 82 mm
  - B ⌀ 105 mm
  - C ⌀ 150 mm, see larger picture
- Weighing plate material
  - A plastic, with conductive lacquer
  - B, C plastic
- Net weight approx. 0,75 kg
- Batteries included, 9 V block or 2×1.5 V AA
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **Stainless steel weighing plate**, only for models with weighing plate size B, KERN EMB-A02, **€ 26,-**
- 3 **Stack frame** for space-saving storage of precision balances from the KERN EMB range, scope of delivery 5 pieces, for models with housing dimensions W×D×H 170×244×39 mm, KERN EMB-A07, **€ 60,-** 170×244×52 mm, KERN EMB-A09, **€ 75,-**
- **External universal mains adapter**, with universal input and optional input socket adapters for EU, GB, USA, KERN YKA-03N, **€ 32,-**
- 4 **Ancillary kit for density determination** of liquids and solids with density > 1. Scope of supplies: Weighing plate (⌀ 102 mm), hook (H 139 mm), suitable for models with weighing plate size A, KERN YDB-04, **€ 25,-**

STANDARD

OPTION

Model KERN	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DAkkS KERN	 €
EMB 100-3	100	0,001	0,001	± 0,005	A	**195,-**	963-127	72,-
EMB 200-3	200	0,001	0,001	± 0,005	A	**210,-**	963-127	72,-
EMB 200-2	200	0,01	0,01	± 0,02	B	**125,-**	963-127	72,-
EMB 600-2	600	0,01	0,01	± 0,03	B	**160,-**	963-127	72,-
EMB 1000-2	1000	0,01	0,01	± 0,05	C	**195,-**	963-127	72,-
EMB 2000-2	2000	0,01	0,01	± 0,05	C	**205,-**	963-127	72,-
EMB 500-1	500	0,1	0,1	± 0,2	C	**55,-**	963-127	72,-
EMB 500-1BE	500	0,1	0,1	± 0,2	C	**55,-**	963-127	72,-
EMB 1200-1	1200	0,1	0,1	± 0,3	C	**78,-**	963-127	72,-
EMB 3000-1	3000	0,1	0,1	± 0,3	C	**125,-**	963-127	72,-
EMB 6000-1	6000	0,1	0,1	± 0,3	C	**160,-**	963-128	88,-
EMB 2200-0	2200	1	1	± 2	C	**57,-**	963-127	72,-
EMB 5.2K1	5200	1	1	± 3	C	**60,-**	963-128	88,-
EMB 5.2K5	5200	5	5	± 10	C	**55,-**	963-128	88,-

AA QUALITY

School balance with integrated density determination function

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
- **Self-explanatory graphic control panel**, the workings steps can be understood immediately, even without operating instructions
  - no learning time = reduces costs
  - ideal for untrained users
  - visualised process avoids operating errors
- **The 4 steps are carried out from le to right:**
  1 Tare the balance by pressing the [TARE] key
  2 Select density determination mode (solids/liquids)
  3 Weighing of samples/plummets in air
  4 Weighing of samples/plummets in liquid.
  The density will be shown on the display right away
- **Particularly flat design**
- **Hook for underfloor weighing** standard
- **Ready for use:** Batteries included, 9 V-Block, operating time up to 12 h, AUTO-OFF function to preserve the battery
- **Note: Balance and appropriate set for density determination should be ordered at the same time, see accessories**

Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface, plastic
  A Ø 82 mm
  B Ø 150 mm, see larger picture
- Overall dimensions W×D×H 175×245×54 mm
- Net weight approx. 0,85 kg
- Permissible ambient temperature 5 °C/35 °C
- **Now also with carat weighing unit:**
  EMB 200-3V: 1000 ct/0,005 ct
  EMB 2000-2V: 10000 ct/0,05 ct

Accessories

KERN EMB 200-3V:

- 5 **Ancillary kit for density determination** of liquids and solids with density > 1. Scope of supplies: Weighing plate (Ø 102 mm), hook (H 139 mm), suitable for models with weighing plate size A, KERN YDB-04, **€ 25,-**
- 6 **Set for density determination** of liquids and solids with density ≤/≥ 1. Scope of delivery: Weighing plate, beaker (H×Ø 71×51 mm), sample holder, plummet, KERN YDB-01, **€ 215,-**
- **DAkkS-Calibration certificate** for the plummet (20 g), KERN 962-335V, **€ 143,-**

KERN EMB 2000-2V:

- 7 **Set for density determination** of liquids and solids with density ≤/≥ 1. Scope of delivery: Weighing plate, beaker (H×Ø 135×100 mm), sample holder, plummet, KERN YDB-02, **€ 330,-**
- **DAkkS-Calibration certificate** for the plummet (200 g), KERN 962-338V, **€ 141,-**

STANDARD

OPTION

Model KERN	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DAkkS KERN	 €
EMB 200-3V	200	0,001	0,002	± 0,005	A	**250,-**	963-127	72,-
EMB 2000-2V	2000	0,01	0,02	± 0,05	B	**250,-**	963-127	72,-

1

2

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

Features

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

Technical data

- LCD display, digit height 25 mm
- Dimensions weighing surface
  - A ⌀ 105 mm
  - B W×D 175×190 mm, see larger picture
- Weighing plate material
  - A plastic, with conductive lacquer
  - B plastic
- Overall dimensions W×D×H 200×280×63 mm (without draught shield)
- Optional battery operation, 9 V-Block not included in scope of delivery, operating time up to 40 h
- External mains adapter standard
- Net weight approx. 1,4 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- 2 **Stainless steel weighing plate**, only for models with weighing plate size B, KERN EMS-A01, **€ 30,-**

STANDARD: CAL EXT · PCS · RECIPE · PERCENT · UNIT · BATT · MULTI · DMS · 1 DAY

OPTION: DAkkS +3 DAYS

Model KERN	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Quality code QUALITY	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DAkkS KERN	 €
EMS 300-3	300	0,001	0,002	± 0,005	A	AA	**260,-**	963-127	72,-
EMS 3000-2	3000	0,01	0,02	± 0,05	B	BA	**240,-**	963-127	72,-
EMS 6K0.1	6000	0,1	0,1	± 0,3	B	AA	**160,-**	963-128	88,-
EMS 12K0.1	12000	0,1	0,1	± 0,3	B	BA	**205,-**	963-128	88,-
EMS 6K1	6000	1	1	± 3	B	AA	**80,-**	963-128	88,-
EMS 12K1	12000	1	1	± 3	B	AA	**85,-**	963-128	88,-

NEW

AA QUALITY

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

Features

- Thanks to its compact, robust design, its bright display and high precision, this range is ideal for use in laboratories, quality control, production as well in schools and universities for teaching biology, chemistry and physics, for example
- **Large, shock proof weighing plate made of stainless steel,** can be removed and therefore is hygienic and easy to clean
- 1 **Particularly flat design**
- **Ergonomically optimised key pad**
- **Simple and convenient 5-key operation**
- Large high-contrast display that is easy to read
- 2 **Secure and non-slip positioning** with rubber feet
- **Level indicator and levelling feet** for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see *Test weights*

Technical data

- Backlit LCD display, digit height 22 mm
- Dimensions weighing surface, stainless steel
  A Ø 105 mm
  B B×H 120×120 mm, see larger picture
- Overall dimensions W×D×H 160×225x50 mm (without draught shield)
- Optional battery operation, 2×1.5 V AA, not included in scope of deliveryw, operating time up to 400 h
- External mains adapter standard
- Net weight approx. 0,5 kg
- Permissible ambient temperature 5 °C/40 °C

STANDARD

OPTION

Model KERN	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DAkkS KERN	 €
EHA 500-2	500	0,01	0,03	± 0,02	A	**90,-**	963-127	72,-
EHA 500-1	500	0,1	0,3	± 0,2	A	**65,-**	963-127	72,-
EHA 1000-1	1000	0,1	0,3	± 0,2	A	**65,-**	963-127	72,-
EHA 3000-1	3000	0,1	0,3	± 0,3	B	**90,-**	963-127	72,-
EHA 3000-0	3000	1	3	± 2	B	**65,-**	963-127	72,-

1

2

3

High-resolution precision balance with removable display 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 direct in special units such as length of thread g/m, paper weight g/m^2, or similar
- **Level indicator and levelling feet** for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- 1 **Draught shield** standard for models with weighing plate size A, weighing space W×D×H 146×146×80 mm
- **Protective working cover** included with delivery

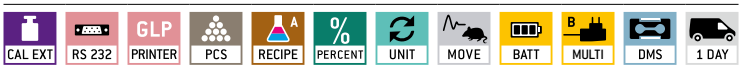
Technical data

- Large backlit LCD display, digit height 21 mm
- Dimensions weighing surface
  - A ⌀ 105 mm
  - B W×D 160×160 mm, see larger picture
- Weighing plate material
  - A plastic, with conductive lacquer
  - B stainless steel
- Dimensions of display device W×D×H 140×46×75 mm
- Optional battery operation, 9 V-Block not included in scope of deliveryw, operating time up to 12 h, AUTO-OFF function to preserve the battery
- Overall dimensions W×D×H 165×280×75 mm
- Cable length of display device approx. 1,2 m
- Net weight approx. 1,2 kg
- Permissible ambient temperature 5 °C/35 °C

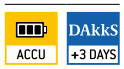
Accessories

- **Protective working cover** over the display device, scope of delivery: 5 items, KERN PCD-A05S05, **€ 40,-**
- 2 **Stand** to elevate display device, height of stand approx. 250 mm, KERN PCD-A03, **€ 50,-**
- **Rechargeable battery pack internal**, operating time up to 24 h without backlight, charging time approx. 10 h, KERN PCD-A04, **€ 50,-**
- 3 **Foot switch**, ideal when the application requires two free hands. TARE or PRINT function can be selected. Scope of delivery: foot switch, junction box, connection cable. For the PRINT function you will need the RS-232 interface cable, KERN YKF-01, **€ 85,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- **Individual header data:** the free software can be used to print 4 header lines on the printout when using printers 911-013, YKN-01, YKB-01N, YKE-01 and YKC-01 (in combination with YKI-02)
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model KERN	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Quality code QUALITY	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DAkkS KERN	 €
PCD 250-3	250	0,001	0,002	± 0,005	A	AA	**305,-**	963-127	72,-
PCD 300-3	350	0,001	0,002	± 0,005	A	AA	**350,-**	963-127	72,-
PCD 2500-2	2500	0,01	0,02	± 0,05	B	BA	**295,-**	963-127	72,-
PCD 3000-2	3500	0,01	0,02	± 0,05	B	BA	**350,-**	963-127	72,-
PCD 6K-4	6000	0,1	0,1	± 0,3	B	BA	**260,-**	963-128	88,-
PCD 10K0.1	10000	0,1	0,1	± 0,3	B	BA	**240,-**	963-128	88,-
PCD 10K-3	10000	1	1	± 3	B	BA	**190,-**	963-128	88,-

A

B

C

The standard in the laboratory

Features

- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m^2, or similar
- With the **recipe function** you can weigh the different ingredients of a mixture. As a check, you can also call up the total weight of all the ingredients
- **Plus/minus weighing procedures**
- **Ring-shaped draught shield** standard, only for models with weighing plate size A, weighing space Ø×H 90×40 mm
- **Protective working cover** included with delivery

Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions weighing surface
  - A Ø 81 mm
  - B Ø 105 mm
  - C W×D 130×130 mm
  - D W×D 150×170 mm, see larger picture
- Weighing plate material
  - A plastic, with conductive lacquer
  - B, C, D stainless steel
- Overall dimensions W×D×H 163×245×79 mm (without draught shield)
- Optional battery operation, 9 V-Block not included in scope of delivery, operating time up to 20 h,
  AUTO-OFF function to preserve the battery
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
  - A KERN PCB-A02S05, **€ 40,-**
  - B KERN PCB-A03S05, **€ 40,-**
  - C KERN PCB-A04S05, **€ 40,-**
  - D KERN PCB-A05S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 48 h without backlight, charging time approx. 8 h,
  KERN PCB-A01, **€ 75,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network,
  KERN YKI-01, **€ 290,-**
- **Balance Connection Software**,
  KERN SCD-4.0, **€ 150,-**
- **Individual header data:** the free software SHM-01 can be used to print 4 header lines on the printout when using printers 911-013, YKN-01, YKB-01N, YKE-01 and YKC-01 (in combination with YKI-02)
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

OPTION

Model KERN	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Quality code QUALITY	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DAkkS KERN	 €
PCB 100-3	100	0,001	0,001	± 0,003	A	AA	**265,-**	963-127	72,-
PCB 250-3	250	0,001	0,001	± 0,005	A	AA	**290,-**	963-127	72,-
PCB 350-3	350	0,001	0,002	± 0,005	A	AA	**300,-**	963-127	72,-
PCB 200-2	200	0,01	0,01	± 0,02	B	AA	**230,-**	963-127	72,-
PCB 1000-2	1000	0,01	0,01	± 0,03	C	AA	**255,-**	963-127	72,-
PCB 2500-2	2500	0,01	0,01	± 0,05	C	BA	**290,-**	963-127	72,-
PCB 3500-2	3500	0,01	0,02	± 0,05	C	AA	**300,-**	963-127	72,-
PCB 1000-1	1000	0,1	0,1	± 0,2	C	AA	**185,-**	963-127	72,-
PCB 2000-1	2000	0,1	0,1	± 0,2	C	AA	**215,-**	963-127	72,-
PCB 6000-1	6000	0,1	0,1	± 0,3	D	BA	**240,-**	963-128	88,-
PCB 10000-1	10000	0,1	0,1	± 0,3	D	BA	**245,-**	963-128	88,-
PCB 6000-0	6000	1	1	± 2	D	BA	**130,-**	963-128	88,-

AA QUALITY

A

B

C

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 draught shield** standard, only for models with weighing plate size A, weighing space Ø×H 90×40 mm
- **Protective working cover** included with delivery

Technical data

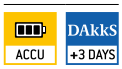
- Backlit LCD display, digit height 15 mm
- Dimensions weighing surface
  - A Ø 81 mm
  - B Ø 105 mm
  - C W×D 130×130 mm
  - D W×D 150×170 mm, see larger picture
- Weighing plate material
  - A plastic, with conductive lacquer
  - B, C, D stainless steel
- Overall dimensions (without draught shield) W×D×H 165×230×80 mm
- Optional battery operation, 9 V-Block not included in scope of deliveryw, operating time up to 20 h, AUTO-OFF function to preserve the battery
- Net weight approx. 0,95 kg
- Permissible ambient temperature 5 °C/35 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
  - A KERN 440-210-002S05, **€ 40,-**
  - B KERN 440-330-002S05, **€ 40,-**
  - C KERN 440-450-002S05, **€ 40,-**
  - D KERN 440-530-002S05, **€ 40,-**
- **Internal rechargable battery pack,** operating time up to 20 h without backlight, charging time approx. 10 h, KERN FCB-A01, **€ 50,-**
- **Hook for underfloor weighing**, KERN 440-A01, **€ 25,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- **Individual header data:** the free software SHM-01 can be used to print 4 header lines on the printout when using printers 911-013, YKN-01, YKB-01N, YKE-01 and YKC-01 (in combination with YKI-02)
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

OPTION



Model KERN	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DAkkS KERN	 €
440-21A	60	0,001	0,001	± 0,003	A	**350,-**	963-127	72,-
440-33N	200	0,01	0,01	± 0,02	B	**290,-**	963-127	72,-
440-35N	400	0,01	0,01	± 0,03	B	**330,-**	963-127	72,-
440-35A	600	0,01	0,01	± 0,03	B	**365,-**	963-127	72,-
440-43N	400	0,1	0,1	± 0,2	C	**185,-**	963-127	72,-
440-45N	1000	0,1	0,1	± 0,2	C	**245,-**	963-127	72,-
440-47N	2000	0,1	0,1	± 0,2	C	**270,-**	963-127	72,-
440-49N	4000	0,1	0,1	± 0,3	D	**330,-**	963-127	72,-
440-49A	6000	0,1	0,1	± 0,3	D	**365,-**	963-128	88,-
440-51N	4000	1	1	± 2	D	**160,-**	963-127	72,-
440-53N	6000	1	1	± 2	D	**180,-**	963-128	88,-

02

A

B

1

Quick-display precision balance with user-friendly concept of operation modes – now with larger housing for more stability

Features

- **Easy to use:** All primary functions have their own key on the keypad
- **Compact size**, practical for small spaces
- **Capacity display:** A rising bar graph display shows the remaining available weighing capacity
- **Level indicator and levelling feet** for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- **Draught shield** standard for models with weighing plate size A and B, Weighing space W×D×H 158×143×64 mm

Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions weighing surface, stainless steel
  - A Ø 80 mm
  - B Ø 120 mm
  - C W×D 155×145 mm, see larger picture
- Overall dimensions W×D×H 210×315×90 mm (without draught shield)
- Net weight approx. 2,0 kg
- Permissible ambient temperature 15 °C/30 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN PFB-A12S05, **€ 40,-**
- 1 **Separate second display**, ideal for training and demonstration purposes in laboratories or industry, not permitted for direct sales to the public, KERN PFB-A08, **€ 115,-**
- **Bluetooth data interface** for wireless data transfer to PC or tablets, must be ordered at purchase
  Bluetooth 2.0: KERN PFB-A10, **€ 95,-**
  Bluetooth 4.0: KERN PFB-A11, **€ 125,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD: CAL EXT · RS 232 · KCP PROTOCOL · GLP PRINTER · PCS · RECIPE · PERCENT · MULTI · DMS · 1 DAY

OPTION: DAkkS +3 DAYS

FACTORY: BT 2.0 PFB-A10 · BT 4.0 PFB-A11

Model KERN	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DAkkS KERN	€
PFB 120-3	120	0,001	0,001	± 0,003	A	**280,-**	963-127	72,-
PFB 200-3	200	0,001	0,002	± 0,005	A	**285,-** ↓	963-127	72,-
PFB 300-3	300	0,001	0,002	± 0,005	A	**320,-**	963-127	72,-
PFB 600-2	600	0,01	0,01	± 0,03	B	**245,-**	963-127	72,-
PFB 1200-2	1200	0,01	0,01	± 0,03	B	**245,-**	963-127	72,-
PFB 2000-2	2000	0,01	0,02	± 0,05	B	**260,-**	963-127	72,-
PFB 3000-2	3000	0,01	0,02	± 0,05	B	**285,-**	963-127	72,-
PFB 6000-2	6000	0,05	0,05	± 0,15	C	**250,-**	963-128	88,-
PFB 6000-1	6000	0,1	0,1	± 0,3	C	**225,-**	963-128	88,-

↓ Price reduction

A

B

1

Compact precision balance with large weighing capacity

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 KB-N is a reliable partner for day-to-day work in the laboratory
- **User guidance step by step** on display by Yes/No dialogue
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- **Ring-shaped draught shield** standard, only for models with weighing plate size A, weighing space Ø×H 90×40 mm
- Model with resolution ≥ 240,000 Pt.: **Level indicator to level the balance precisely**
- **Protective working cover** included with delivery

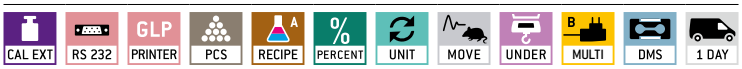
Technical data

- Backlit LCD display, digit height 9 mm
- Dimensions weighing surface
  - A Ø 81 mm, plastic, with conductive lacquer
  - B W×D 130×130 mm, stainless steel
  - C W×D 150×170 mm, stainless steel, see larger picture
- Overall dimensions W×D×H 167×250×85 mm (without draught shield)
- Net weight approx. 1,00 kg
- Permissible ambient temperature 10 °C/40 °C

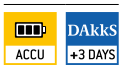
Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
  - A KERN PCB-A02S05, **€ 40,-**
  - B KERN PCB-A04S05, **€ 40,-**
  - C KERN PCB-A05S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KB-A01N, **€ 50,-**
- 1 **Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 160,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model KERN	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Quality code QUALITY	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DAkkS KERN	 €
KB 120-3N	120	0,001	0,001	± 0,003	A	AA	**270,-**	963-127	72,-
KB 240-3N	240	0,001	0,001	± 0,003	A	AA	**280,-**	963-127	72,-
KB 360-3N	360	0,001	0,002	± 0,005	A	AA	**290,-**	963-127	72,-
KB 650-2N	650	0,01	0,01	± 0,03	B	BA	**250,-**	963-127	72,-
KB 1200-2N	1200	0,01	0,01	± 0,03	B	BA	**260,-**	963-127	72,-
KB 2000-2N	2000	0,01	0,01	± 0,03	B	BA	**260,-**	963-127	72,-
KB 2400-2N	2400	0,01	0,01	± 0,03	B	BA	**270,-**	963-127	72,-
KB 3600-2N	3600	0,01	0,02	± 0,05	B	BA	**290,-**	963-127	72,-
KB 10K0.05N	10000	0,05	0,05	± 0,15	C	BA	**260,-**	963-128	88,-
KB 6500-1N	6500	0,1	0,1	± 0,3	C	BA	**240,-**	963-128	88,-
KB 10000-1N	10000	0,1	0,1	± 0,3	C	BA	**250,-**	963-128	88,-

High-quality precision balance with automatic internal adjustment, also with EC type approval [M]

Features

- **Easy to use:** All primary functions have their own key on the keypad
- **Automatic internal adjustment**, time-controlled every 2 h, guarantees high degree of accuracy and makes the balance independent of its location
- **Capacity display:** A bar lights up to show how much of the weighing capacity is still available
- KERN EWJ/EWJ-H/EWJ-M: **USB interface** for transferring weighing data to the PC, printer etc., possibly in conjunction with KERN DBS-A02. Can only be used in combination with KERN DBS-A02 accessories
- KERN EWJ-SM: cost-effective variant without data interfaces
- **Draft shield** standard on models KERN EWJ 300-3, EWJ 600-2SM, EWJ 600-2M, weighing space W×D×H 134×128×80 mm
- 1 KERN EWJ 300-3H: **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 175×155×217 mm
- **Protective working cover** included with delivery

Technical data

- Large backlit LCD display, digit height 16,5 mm
- Dimensions weighing surface
  - A ø 80 mm
  - B ø 120 mm, see larger picture
  - C W×D 155×145 mm
- Overall dimensions W×D×H
  220×315×90 mm (without draught shield)
  220×340×321 mm (incl. draught shield)
- Permissible ambient temperature
  KERN EWJ: 15 °C/35 °C
  KERN EWJ-M: 15 °C/30 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN EWJ-A04S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 15 h without backlight, charging time approx. 4 h, KERN KFB-A01, **€ 35,-**
- KERN EWJ/-H/-M: **USB Accessory Kit** for bi-directional data exchange between balance/moisture analyser and computer. Scope of delivery: USB cable, driver, Software BalanceConnection, KERN DBS-A02, **€ 290,-**
- **RS-232/WiFi adapter** for wireless connection to networks and WiFi capable devices, such as tablets, laptops or smartphones, KERN YKI-03, **€ 690,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

CAL INT · RS 232 (not EWJ-SM) · USB (not EWJ-SM) · KCP PROTOCOL · GLP PRINTER · PCS · RECIPE · % PERCENT · UNIT · MULTI · DMS · 1 DAY

OPTION

ACCU · DAkkS +3 DAYS

FACTORY

M +3 DAYS EWJ-M

Model KERN	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option Verification MII KERN	 €	 DAkkS Calibr. Certificate DAkkS KERN	 €
EWJ 300-3	300	0,001	-	-	± 0,005	A	**450,-**	-	-	963-127	72,-
EWJ 300-3H	300	0,001	-	-	± 0,005	A	**490,-**	-	-	963-127	72,-
EWJ 3000-2	3000	0,01	-	-	± 0,05	B	**430,-**	-	-	963-127	72,-
Note: For applications that require verification, please order verificati on 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.											
EWJ 600-2SM	600	0,01	0,1	0,5	± 0,03	B	**350,-**	965-216	66,-	963-127	72,-
EWJ 600-2M	600	0,01	0,1	0,5	± 0,03	B	**360,-**	965-216	66,-	963-127	72,-
EWJ 6000-1SM	6000	0,1	1	5	± 0,3	C	**340,-**	965-217	77,-	963-128	88,-
EWJ 6000-1M	6000	0,1	1	5	± 0,3	C	**350,-**	965-217	77,-	963-128	88,-

A

B

1

All-rounder e.g. as precision balance in the laboratory or in harsh industrial applications

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 · 573 is a reliable partner for day-to-day work in the laboratory
- **The robust version**, typical industrial functions, such as piece-counting, vibrationfree weighing and the large weighing capacities also make these balances ideal for all industrial applications, where a high level of precision is required
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- **The robust aluminium diecast housing** maintains the stability, protects the weighing technology elements and is robust enough to cope with everyday use
- **Ring-shaped draught shield** standard, only for models with weighing plate size A, weighing space Ø×H 157×43 mm
- Model with resolution > 240,000 Pt.: **Level indicator and levelling feet for precise levelling of the scale, fitted** as standard
- **Loop for underfloor weighing**, standard for models with [d] = 0,001 g
- **Protective working cover** included with delivery

Technical data

- Large backlit LCD display, digit height 18 mm
- Dimensions weighing surface, stainless steel
  - A Ø 106 mm
  - B Ø 150 mm
  - C W×D 160×200 mm, see larger picture
- Overall dimensions W×D×H 180×310×85 mm
- Permissible ambient temperature 10 °C/40 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN 572-A02S05, **€ 40,-**
- **Rechargeable battery pack external**, operating time up to 30 h without backlight, charging time approx. 10 h, KERN KS-A01, **€ 160,-**
- **Loop and hook for underfloor weighing,** for models with [d] ≥ 0,01 g, KERN 572-A03, **€ 25,-**
- 1 **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 150×140×130 mm, for models with weighing plate size A, KERN 572-A05, **€ 230,-**

STANDARD: CAL EXT, RS 232, PRINTER, PCS, RECIPE, PERCENT, UNIT, MOVE, UNDER, MULTI, DMS, 1 DAY

OPTION: ACCU, DAkkS +3 DAYS

Model KERN	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Resolution Points	Weighing plate	Price excl. of VAT ex works €	Option DAkkS Calibr. Certificate DAkkS KERN	 €
572-30	240	0,001	0,001	± 0,003	240.000	A	**520,-** ↓	963-127	72,-
572-31	300	0,001	0,002	± 0,005	300.000	A	**530,-** ↓	963-127	72,-
572-32	420	0,001	0,002	± 0,005	420.000	A	**540,-** ↓	963-127	72,-
573-34	650	0,01	0,01	± 0,03	65.000	B	**530,-**	963-127	72,-
572-33	1600	0,01	0,01	± 0,03	160.000	B	**490,-** ↓	963-127	72,-
572-35	2400	0,01	0,01	± 0,03	240.000	B	**500,-** ↓	963-127	72,-
572-37	3000	0,01	0,02	± 0,05	300.000	B	**510,-** ↓	963-127	72,-
572-39	4200	0,01	0,02	± 0,05	420.000	B	**520,-** ↓	963-127	72,-
572-45	12000	0,05	0,05	± 0,15	240.000	C	**500,-** ↓	963-128	88,-
572-55	20000	0,05	0,1	± 0,25	400.000	C	**530,-** ↓	963-128	88,-
573-46	6500	0,1	0,1	± 0,3	65.000	C	**530,-**	963-128	88,-
572-43	10000	0,1	0,1	± 0,3	100.000	C	**490,-** ↓	963-128	88,-
572-49	16000	0,1	0,1	± 0,3	160.000	C	**500,-** ↓	963-128	88,-
572-57	24000	0,1	0,1	± 0,3	240.000	C	**500,-** ↓	963-128	88,-

↓ Price reduction

02

1

A

C

Range of precision balances with enormous weighing capacities – ideal for heavy tare containers or large samples

Features

- 1 KERN PLJ 2000-3A: **High-quality milligram balance with enormous weighing capacity up to 2100 g** – ideal for large samples or heavy tare containers
- **Ergonomically optimised keypad** for left and righthanded users
- KERN PLJ: **Automatic internal adjustment**, guarantees high degree of accuracy and makes the balance independent of its location of use
- Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- KERN PLS: **Adjusting program CAL** for quick setting of the balance accuracy, external test weights at an additional price, see *Test weights*
- **Draught shield** standard for models with weighing plate size A, weighing space Ø×H 60×150 mm
- **Protective working cover** included with delivery

Technical data

- Backlit LCD display, digit height 17 mm
- Dimensions weighing surface, stainless steel
  - A Ø 110 mm
  - B Ø 160 mm, see larger picture
  - C W×D 200×175 mm
- Permissible ambient temperature
  KERN PLS, PLJ: 5 °C/35 °C
  KERN PLJ-M: 15 °C/30 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN PLJ-A01S05, **€ 40,-**
- 2 **Hook for underfloor weighing**, KERN PLJ-A02, **€ 30,-**
- **Set for density determination** of liquids and solids with density ≤/≥ 1 for models with [d] = 0,001 g, KERN ALT-A02, **€ 830,-**
  [d] = 0,01 g, KERN PLT-A01, **€ 830,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD

CAL INT (PLJ) · CAL EXT (PLS) · RS 232 · GLP PRINTER · PCS · RECIPE · PERCENT · TOL · UNDER 2 · MULTI · DMS (PLS/PLJ-F) · FORCE (PLS/PLJ-A) · 1 DAY

OPTION

DAkkS +3 DAYS

FACTORY

M +3 DAYS (PLJ-M)

Model KERN	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Quality code QUALITY	Price excl. of VAT ex works €	Option: Verification MID KERN	Verification €	DAkkS Calibr. Certificate DAkkS KERN	€
PLS 420-3F	420	0,001	-	-	± 0,004	A	BA	**590,-**	-	-	963-127	72,-
PLS 720-3A	720	0,001	-	-	± 0,002	A	BC	**840,-**	-	-	963-127	72,-
PLS 1200-3A	1200	0,001	-	-	± 0,003	A	BC	**880,-**	-	-	963-127	72,-
PLS 4200-2F	4200	0,01	-	-	± 0,04	B	BA	**590,-**	-	-	963-127	72,-
PLS 6200-2A	6200	0,01	-	-	± 0,03	B	BC	**860,-** ↓	-	-	963-128	88,-
PLS 8000-2A	8200	0,01	-	-	± 0,04	B	BC	**1040,-** ↓	-	-	963-128	88,-
PLS 20000-1F	20000	0,1	-	-	± 0,4	C	BA	**570,-**	-	-	963-128	88,-
PLJ 420-3F	420	0,001	-	-	± 0,003	A	BA	**700,-**	-	-	963-127	72,-
PLJ 720-3A	720	0,001	-	-	± 0,002	A	CC	**980,-**	-	-	963-127	72,-
PLJ 1200-3A	1200	0,001	-	-	± 0,003	A	CC	**1000,-**	-	-	963-127	72,-
PLJ 2000-3A	2100	0,001	-	-	± 0,004	A	CC	**1650,-**	-	-	963-127	72,-
PLJ 4200-2F	4200	0,01	-	-	± 0,04	B	BA	**690,-**	-	-	963-127	72,-
PLJ 6200-2A	6200	0,01	-	-	± 0,03	B	CC	**980,-** ↓	-	-	963-128	88,-
Note: For applications that require verification, please order verificati on 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 720-3AM	720	0,001	0,01	0,02	± 0,002	A	CC	**980,-** ↓	965-216	66,-	963-127	72,-
PLJ 6200-2AM	6200	0,01	0,1	0,5	± 0,03	B	CC	**980,-** ↓	965-217	77,-	963-128	88,-

↓ Price reduction

The new standard in the laboratory with robust tuning fork weighing system

Features

- KERN PNJ: **Automatic internal adjustment**, guarantees high degree of accuracy and makes the balance independent of its location of use. Ideal for mobile applications which require verification, such as ambulatory gold and jewellery purchasing
- KERN PNS: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **High-quality tuning fork measuring system** for steady weight values and continuous weighing
- **Capacity display:** A bar lights up to show how much of the weighing capacity is still available
- **Precise counting:** The automatic reference weight optimisation of reference weight gradually improves the average piece weight value
- **Compact size**, practical for small spaces
- **Large, shock proof weighing plate made of stainless steel**
- **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 172×171×160 mm, for models with weighing plate size A
- **Protective working cover** included with delivery

Technical data

- Large LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel
  - A ø 140 mm
  - B W×D 190×190 mm, see larger picture
- Overall dimensions W×D×H
  - A 196×293×266 mm
  - B 196×293×89 mm
- Net weight
  - A approx. 2,2 kg
  - B approx. 2,8 kg
- Permissible ambient temperature 5 °C/40 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, KERN PNJ-A01S05, **€ 40,-**
- **RS-232/Bluetooth adapter** to connect to Bluetooth capable devices, such as Bluetooth printers, tablets, laptops, smartphones, etc., KERN YKI-02, **€ 290,-**
- **RS-232/WiFi adapter** for wireless connection to networks and WiFi capable devices, such as tablets, laptops or smartphones, KERN YKI-03, **€ 690,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- 1 **Precious stones plate**, aluminium with practical spout, W×D×H 83×66×23 mm, KERN AEJ-A05, **€ 40,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD — OPTION — FACTORY

CAL INT (PNJ) · CAL EXT (PNS) · RS 232 · GLP INTERN (PNJ) · PCS · PERCENT · UNIT · TOL · MULTI · T-FORK · 1 DAY · DAkkS +3 DAYS · M +3 DAYS (PNJ)

Model KERN	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option Verification MII KERN	 €	 DAkkS Calibr. Certificate DAkkS KERN	 €
PNS 600-3	620	0,001	-	-	± 0,004	A	**620,-**	-	-	963-127	72,-
PNS 3000-2	3200	0,01	-	-	± 0,02	B	**580,-**	-	-	963-127	72,-
PNS 12000-1	12000	0,1	-	-	± 0,2	B	**570,-**	-	-	963-128	88,-
Note: For applications that require verification, please order verificati on 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.											
PNJ 600-3M	620	0,001	0,01	0,02	± 0,004	A	**740,-**	965-216	66,-	963-127	72,-
PNJ 3000-2M	3200	0,01	0,1	0,5	± 0,02	B	**705,-**	965-216	66,-	963-127	72,-
PNJ 12000-1M	12000	0,1	1	5	± 0,2	B	**705,-**	965-217	77,-	963-128	88,-

B

C

1

2

The classic balance with robust tuning fork measuring system

Features

- 1 KERN EG-N: **Internal adjustment** by rotary knob on the side. Guarantees high degree of accuracy and makes the balance independent of its location
- KERN EW-N: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **Stable temperature behaviour**
- **Short stabilisation time**
- **Shock proof construction**
- **High corner load performance**
- **GLP/ISO record keeping** of weight values
- **Totalising** of pieces when counting
- **Draught shield** standard for models with weighing plate size A, weighing space W×D×H 158×130×78 mm
- **Protective working cover** included with delivery

Technical data

- Large LCD display, digit height 17 mm
- Dimensions weighing surface, stainless steel
  A ⌀ 118 mm, see larger picture
  B W×D 170×140 mm
  C W×D 180×160 mm
- Overall dimensions W×D×H, without draught shield
  A, B 182×235×75 mm
  C 192×275×87 mm
- Net weight approx. 1,4 kg
- Permissible ambient temperature 10 °C/30 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
  A, B KERN EG-A05S05, **€ 40,-**
  C KERN EG-A09S05, **€ 40,-**
- **Rechargeable battery pack internal**, operating time up to 32 h without backlight, charging time approx. 12 h, for models with weighing plate size
  A, B KERN EG-A04, **€ 110,-**
  C KERN EG-A06, **€ 110,-**
  Note: If the rechargable battery pack is retrofitted to a verified balance, it must be recalibrated
- 2 **Large glass draught shield** with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 150×140×130 mm, for models with weighing plate size A, KERN EG-A03, **€ 250,-**
- **Loop for underfloor weighing**, for models with weighing plate size
  A, B KERN EG-A07, **€ 40,-**
  C KERN EG-A08, **€ 40,-**
- **Precious stones plate**, aluminium with practical spout, W×D×H 83×66×23 mm, KERN AEJ-A05, **€ 40,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

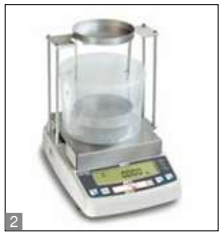
STANDARD: CAL INT (EG-N), CAL EXT (EW-N), RS 232, GLP PRINTER, PCS, % PERCENT, UNIT, TOL, UNDER, 230 V, T-FORK, 1 DAY
OPTION: ACCU, B MULTI, DAkkS +3 DAYS
FACTORY: M +3 DAYS (EG-N)

Model KERN	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Quality code QUALITY	Price excl. of VAT ex works €	Option Verification M KERN	 €	 DAkkS Calibr. Certificate DAkkS KERN	 €
EW 220-3NM	220	0,001	-	-	± 0,002	A	AB	**620,-**	-	-	963-127	72,-
EW 420-3NM	420	0,001	-	-	± 0,003	A	AB	**690,-**	-	-	963-127	72,-
EW 620-3NM	620	0,001	-	-	± 0,003	A	AB	**770,-**	-	-	963-127	72,-
EW 820-2NM	820	0,01	-	-	± 0,01	B	BB	**540,-**	-	-	963-127	72,-
EW 2200-2NM	2200	0,01	-	-	± 0,01	C	BB	**660,-**	-	-	963-127	72,-
EW 4200-2NM	4200	0,01	-	-	± 0,02	C	BB	**760,-**	-	-	963-127	72,-
EW 6200-2NM	6200	0,01	-	-	± 0,03	C	BB	**810,-**	-	-	963-128	88,-
EW 12000-1NM	12000	0,1	-	-	± 0,2	C	BB	**630,-**	-	-	963-128	88,-
Note: For applications that require verification, please order verificati on 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.												
EG 220-3NM	220	0,001	0,01	0,02	± 0,002	A	BB	**760,-**	965-216 II	66,-	963-127	72,-
EG 420-3NM	420	0,001	0,01	0,02	± 0,003	A	BB	**830,-**	965-216 II	66,-	963-127	72,-
EG 620-3NM	620	0,001	0,01	0,1	± 0,004	A	BB	**930,-**	965-201 I	110,-	963-127	72,-
EG 2200-2NM	2200	0,01	0,1	0,5	± 0,01	C	BB	**800,-** ↓	965-216 II	66,-	963-127	72,-
EG 4200-2NM	4200	0,01	0,1	0,5	± 0,02	C	BB	**880,-**	965-216 II	66,-	963-127	72,-

↓ Price reduction

PREMIUM ★★★

1


2

3

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

Features

- KERN PBJ: **Internal adjustment** in the case of a change in temperature and time-controlled at defined intervals, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN PBS: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **Metal housing:** robust and sturdy
- **Dosage aid:** High-stability mode and other filter settings can be selected
- **Weighing with tolerance range (check-weighing):** a visual signal helps with portioning, dispensing or grading
- **Totalising** of weights
- **Identification number:** 4 digits, printed on calibration protocol freely programmable
- **Automatic data output to the PC/printer** each time the balance is steady
- 1 **Draught shield** standard for models with [d] = 0,001 g, weighing space W×D×H 180×193×87 mm
- **Protective working cover** included with delivery

Technical data

- Large backlit LCD display, digit height 14 mm
- Dimensions weighing surface, stainless steel
  - A W×D 108×105 mm
  - B W×D 180×190 mm, see larger picture
- Overall dimensions W×D×H 209×322×78 mm (without draught shield)
- Net weight approx. 3,2 kg
- Permissible ambient temperature10 °C/30 °C

Accessories

- **Protective working cover**, scope of delivery: 5 items, for models with weighing plate size
  - A KERN PBS-A01S05, **€ 40,-**
  - B KERN PBS-A02S05, **€ 40,-**
- 2 **Set for density determination** of liquids and solids with density ≥ 1, for models with weighing plate size
  - A KERN PBS-A04, **€ 1600,-**
  - B KERN PBS-A03, **€ 1650,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

3 Single-cell advanced technology:

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

STANDARD

PBJ PBS 3

OPTION

FACTORY

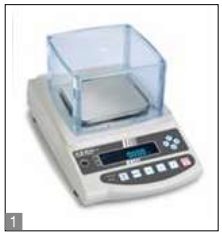
PBJ

Model KERN	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Quality code QUALITY	Price excl. of VAT ex works €	Option Verification M KERN	 €	 DAkkS Calibr. Certificate DAkkS KERN	 €
PBS 620-3M	620	0,001	-	-	± 0,002	A	BC	**1370,-**	-	-	963-127	72,-
PBS 4200-2M	4200	0,01	-	-	± 0,02	B	BC	**1160,-**	-	-	963-127	72,-
PBS 6200-2M	6200	0,01	-	-	± 0,02	B	BC	**1390,-**	-	-	963-128	88,-
Note: For applications that require verification, please order verificati on 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.												
PBJ 620-3M	620	0,001	0,01	0,1	± 0,002	A	BC	**1610,-**	965-201 I	110,-	963-127	72,-
PBJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	B	CC	**1430,-**	965-216 II	66,-	963-127	72,-
PBJ 6200-2M	6200	0,01	0,1	1	± 0,02	B	CC	**1730,-**	965-202 I	110,-	963-128	88,-
PBJ 8200-1M	8200	0,1	1	5	± 0,2	B	CC	**1420,-**	965-217 II	77,-	963-128	88,-

02

PREMIUM ★★★

C


1

Robust laboratory and industrial precision scale for heavy items, with EC type approval [M]

Features

- KERN PEJ: **Automatic internal adjustment**, guarantees high degree of accuracy and makes the balance independent of its location of use
- KERN PES: **Adjusting program CAL** for quick setting of the balance accuracy using an external test weight
- **Metal housing:** robust and sturdy
- **Weighing with tolerance range (check-weighing):** Input of two upper and two lower limit values through four arrow keys. An audible and visual signal assists with the portioning, dispensing or grading
- 1 **Draught shield** standard for models with [d] = 0,001 g, weighing space W×D×H 170×150×100 mm
- **Underfloor weighing:** load support with loop on the underside of the balance, standard for models with [d] = 0,001 g, hook not included in scope of delivery
- **Protective working cover** included with delivery
- A, B: **Protective working cover** included with delivery

Technical data

- Fluorescent display, bright with high contrast, digit height 14 mm
- Dimensions weighing surface, stainless steel
  - A W×D 140×120 mm
  - B W×D 200×200 mm, see larger picture
  - C W×D 250×220 mm
- Overall dimensions W×D×H, without draught shield
  - A 220×330×90 mm
  - B 220×339×80 mm
  - C 260×330×113 mm
- Net weight approx. A 4,0 kg, B 4,4 kg, C 10 kg
- Permissible ambient temperature 10 °C/30 °C

Accessories

- A, B: **Protective working cover**, scope of delivery: 5 items, KERN PES-A04S05, **€ 40,-**
- KERN PES: **Rechargeable battery pack internal**, operating time up to 32 h, without backlight, charging time approx. 15 h, KERN PES-A01, **€ 610,-**
- **Loop for underfloor weighing,** for models with weighing plate size B, KERN PES-A03, **€ 40,-**
- **Relay output** to connect relays, signal lamps, valves etc., 5 outputs for weighing in 3 tolerance ranges, must be ordered at purchase, KERN PES-A02, **€ 480,-**
- **RS-232/Ethernet adapter** for connection to an IP-based Ethernet network, KERN YKI-01, **€ 290,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD: CAL INT (PEJ), CAL EXT (PES), RS 232, GLP PRINTER, PCS, RECIPE A, PERCENT, UNIT, TOL, UNDER A B, 230 V, T-FORK, 1 DAY

OPTION: B MULTI, DAkkS +3 DAYS

FACTORY: SWITCH, ACCU (PES), M +3 DAYS (PEJ)

Model KERN	Weighing capacity [Max] g	Readability [d] g	Verification value [e] g	Minimal load [Min] g	Linearity g	Weighing plate	Quality code QUALITY	Price excl. of VAT ex works €	Option: Verification M KERN	Option: Verification €	Option: DAkkS Calibr. Certificate DAkkS KERN	Option: DAkkS Calibr. Certificate €
PES 620-3M	620	0,001	-	-	± 0,003	A	BB	**1220,-** ↓	-	-	963-127	72,-
PES 2200-2M	2200	0,01	-	-	± 0,02	B	BB	**840,-**	-	-	963-127	72,-
PES 4200-2M	4200	0,01	-	-	± 0,02	B	BB	**1000,-**	-	-	963-127	72,-
PES 6200-2M	6200	0,01	-	-	± 0,03	B	BB	**1240,-**	-	-	963-128	88,-
PES 15000-1M	15000	0,1	-	-	± 0,2	B	BB	**1190,-**	-	-	963-128	88,-
PES 31000-1M	31000	0,1	-	-	± 0,4	C	CB	**2050,-**	-	-	963-128	88,-
Note: For applications that require verification, please order verificati on 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	0,1	± 0,003	A	BB	**1480,-**	965-201 I	110,-	963-127	72,-
PEJ 2200-2M	2200	0,01	0,1	0,5	± 0,02	B	CB	**1060,-**	965-216 II	66,-	963-127	72,-
PEJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	B	CB	**1230,-**	965-216 II	66,-	963-127	72,-

↓ Price reduction

TIPS FROM THE EXPERTS

As well as our balances and test services, we can offer you an extensive range of microscopes and refractometers.

We will offer you reliable quality at fair prices and with the shortest delivery times. Our product specialists will give you professional advice, will work with you to find the right product and will provide comprehensive support after the purchase too.

This ensures a high level of investment security and a good feeling – KERN, the nice balance manufacturer from the wilds of Southern Germany.

For all details on our ranges, please see **www.kern-sohn.com** or request your own personal catalogues right now:
Telephone +49 7433 9933-0

#1 "No compromises with optical device"

KERN offers you a complete, carefully-designed range of biological microscopes, stereo microscopes, metallurgical microscopes, polarisation microscopes, especially flexible, preconfigured stereomicroscope sets, individually configurable stereomicroscope systems as well as microscope cameras and camera software

#2 "High-precision refractive index measurement for laboratories and industry"

Quick and easy determination of measured values, whether on site, in production or in the laboratory, ensuring safety, consistent quality and accelerating processes. This is what KERN's analog and digital refractometers stand for and at an extremely attractive price in consistently high quality.

All microscopes, microscope cameras, refractometers and a variety of practical accessories can be found in the new KERN Catalog of Microscopes & Refractometers 2020.

Daniel Junger,
Head of Product Management
Optical devices

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DAkkS calibration laboratory
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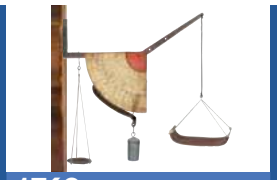

1769
Ancestor Johann Jakob Sauter built the Hahn inclination scale out of iron, a foundation stone for weighing for the balance industry in Southern Germany

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 DKD laboratory (ISO 17025)

2000
New premises in Balingen

2002
Existing QM system certification in accordance with DIN EN ISO 9001:2000 standards

2007
Approval for the manufacture of medical products (DIN EN 13485 and 93/42/EEC)

2008
Authorisation for initial verification by the manufacturer (2009/23/EC)

2009
Approval for the manufacture and sale of height rods (DIN EN 13485 and 93/42/EEC)

2012
Verification point for non-automatic balances and test weights.

New customer portal www.kern-sohn.com goes live

2014
Expansion of the product range to include optical instruments (microscopes and refractometers)

2015
Inauguration of Ziegelei 2.0 with computer-controlled high-bay warehouse

2017
Come with KERN into the digital future: Expansion of the model ranges compatible with Industry 4.0, as well as the related services

2019
Significant anniversary year!
25 years of accredited DKD laboratory
175 years of KERN & SOHN
250 years of balance manufacture in the Sauter family-owned company

2020
Construction of Ziegelei 3.0, extension of administration building