

PROFESSIONAL MEASURING



# PRECISION BALANCES

# 23

# KERN Pictograms

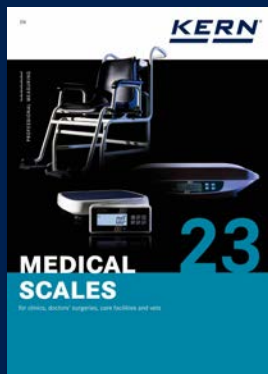
 <b>Internal adjusting:</b> Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)	 <b>Network interface:</b> For connecting the scale to an Ethernet network	 <b>Suspended weighing:</b> Load support with hook on the underside of the balance
 <b>Adjusting program CAL:</b> For quick setting up of the balance's accuracy. External adjusting weight required	 <b>KERN Communication Protocol (KCP):</b> 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	 <b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device
 <b>Easy Touch:</b> Suitable for the connection, data transmission and control through PC or tablet.	 <b>GLP/ISO log:</b> The balance displays weight, date and time, independent of a printer connection	 <b>Rechargeable battery pack:</b> Rechargeable set
 <b>Memory:</b> Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 <b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers.	 <b>Universal plug-in power supply:</b> with universal input and optional input socket adapters for A) EU, CH, GB B) EU, CH, GB, USA C) EU, CH, GB, USA, AUS
 <b>Alibi memory:</b> Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.	 <b>Piece counting:</b> Reference quantities selectable. Display can be switched from piece to weight	 <b>Plug-in power supply:</b> 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
 <b>KERN Universal Port (KUP):</b> allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WLAN, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort	 <b>Recipe level A:</b> The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out	 <b>Integrated power supply unit:</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
 <b>Data interface RS-232:</b> To connect the balance to a printer, PC or network	 <b>Recipe level B:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display	 <b>Weighing principle: Strain gauges</b> Electrical resistor on an elastic deforming body
 <b>RS-485 data interface:</b> To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible	 <b>Totalising level A:</b> The weights of similar items can be added together and the total can be printed out	 <b>Weighing principle: Tuning fork</b> A resonating body is electromagnetically excited, causing it to oscillate
 <b>USB data interface:</b> To connect the balance to a printer, PC or other peripherals	 <b>Percentage determination:</b> Determining the deviation in % from the target value (100 %)	 <b>Weighing principle: Electromagnetic force compensation</b> Coil inside a permanent magnet. For the most accurate weighings
 <b>Bluetooth* data interface:</b> To transfer data from the balance to a printer, PC or other peripherals	 <b>Weighing units:</b> Can be switched to e.g. nonmetric units. See balance model. Please refer to KERN's website for more details	 <b>Weighing principle: Single cell technology:</b> Advanced version of the force compensation principle with the highest level of precision
 <b>WiFi data interface:</b> To transfer data from the balance to a printer, PC or other peripherals	 <b>Weighing with tolerance range:</b> (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	 <b>Verification possible:</b> The time required for verification is specified in the pictogram
 <b>Control outputs (optocoupler, digital I/O):</b> To connect relays, signal lamps, valves, etc.	 <b>Hold function:</b> (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value	 <b>DAKkS calibration possible (DKD):</b> The time required for DAKkS calibration is shown in days in the pictogram
 <b>Analogue interface:</b> to connect a suitable peripheral device for analogue processing of the measurements	 <b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram.	 <b>Factory calibration (ISO):</b> The time required for Factory calibration is shown in days in the pictogram
 <b>Interface for second balance:</b> For direct connection of a second balance	 <b>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram	 <b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram

# KERN – Measuring technology and testing services from a single source



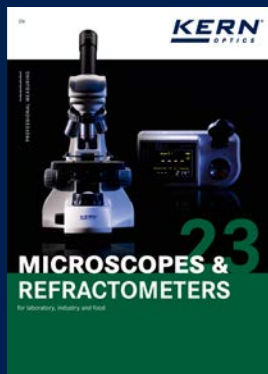
**Balances & Test service catalogue**

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



**Test 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 12 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](http://www.kern-sohn.com)



**Order hotline**  
+49 7433 9933-0



**Service hotline**  
+49 7433 9933-199



**Calibration hotline**  
+49 7433 9933-196



**Online Shop**  
[www.kern-sohn.com](http://www.kern-sohn.com)



**E-mail order**  
[info@kern-sohn.com](mailto:info@kern-sohn.com)



**Our team of consultants will assist you**  
from Monday to Friday  
from 8:00 am to 5:00 pm



**[www.kern-sohn.com](http://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.

# 03



## 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

				★★★★
			FES/FEJ	★★
PBS/PBJ	PES/PEJ			★

### STANDARD LABORATORY BALANCES

					★★★★
					★★
572	PLS/PLJ	PNS/PNJ	EW-/EG-N	PWS	★

### BASIC LABORATORY BALANCES

					★★★★
					★★
PCD	PFB	PCB	440	EWJ	★

# 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 be battery-operated as an alternative to a main power source. This means that they have the flexibility to be used in different locations.

See *school balances*

## **KERN Basic laboratory balances**

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

## **KERN Basic standard laboratory 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 means the balance can be used in any location.

## **KERN premium laboratory balances**

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

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

## Tip

**Transform your weighing system into a powerful weighing system! Using the KERN EasyTouch App even a simple scale can be made into a powerful weighing system, offering a wide range of functions. You simply have to install the KERN EasyTouch App on your PC or tablet (Windows® or Android®), connect the balance (either with cable or wireless), activate the App and straightaway you will be able to control your balance using your PC or tablet. All details from page 132**



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

# Quick-Finder Precision balances

Readability [d] g	Weighing capacity [Max] g	Model	Price excl. of VAT ex works €	Page											
For an explanation on the pictos, see front flap															
0,001	60	440-21A	395,-	28	1										
0,001	120	PFB 120-3	400,-	25	1										
0,001	200	PCB 200-3	375,-	26	1										
0,001	200	PFB 200-3	410,-	25	1										
0,001	220	EW 220-3NM	840,-	33	1										
0,001	220	EG 220-3NM	1060,-	33	1										
0,001	240	572-30	640,-	30	1										
0,001	250	PCD 250-3	385,-	24	1										
0,001	300	PFB 300-3	450,-	25	1										
0,001	300	EWJ 300-3	600,-	29	1										
0,001	300	EWJ 300-3H	680,-	29	1										
0,001	300	572-31	650,-	30	1										
0,001	350	PCD 300-3	415,-	24	1										
0,001	360	PCB 300-3	390,-	26	1										
0,001	420	PLS 420-3F	950,-	31	1										
0,001	420	PLJ 420-3F	1090,-	31	1										
0,001	420	EW 420-3NM	970,-	33	1										
0,001	420	EG 420-3NM	1160,-	33	1										
0,001	420	572-32	680,-	30	1										
0,001	620	PNS 600-3	820,-	32	1										
0,001	620	PNJ 600-3M	950,-	32	1										
0,001	620	EW 620-3NM	1080,-	33	1										
0,001	620	EG 620-3NM	1300,-	33	1										
0,001	620	PES 620-3M	1400,-	36	1										
0,001	620	PBS 620-3M	1820,-	35	1										
0,001	620	PEJ 620-3M	1660,-	36	1										
0,001	620	PBJ 620-3M	2140,-	35	1										
0,001	720	PLS 720-3A	1340,-	31	1										
0,001	720	PLJ 720-3AM	1530,-	31	1										
0,001	720	PLJ 720-3A	1490,-	31	1										
0,001	1200	PLS 1200-3A	1370,-	31	1										
0,001	1200	PLJ 1200-3A	1530,-	31	1										
0,001	2100	PLJ 2000-3A	2100,-	31	1										
0,01	200	440-33N	315,-	28	1										
0,01	300	PCB 300-2	295,-	26	1										
0,01	400	440-35N	365,-	28	1										
0,01	600	PFB 600-2	330,-	25	1										
0,01	600	440-35A	395,-	28	1										
0,01	600	EWJ 600-2SM	500,-	29	1										
0,01	600	EWJ 600-2M	510,-	29	1										
0,01	820	EW 820-2NM	760,-	33	1										
0,01	820	PWS 800-2	1120,-	34	1										
0,01	1200	PFB 1200-2	345,-	25	1										
0,01	1200	PCB 1000-2	355,-	26	1										
0,01	1600	572-33	600,-	30	1										
0,01	2000	PFB 2000-2	370,-	25	1										
0,01	2200	EW 2200-2NM	930,-	33	1										
0,01	2200	EG 2200-2NM	1110,-	33	1										
0,01	2200	PES 2200-2M	990,-	36	1										
0,01	2200	PEJ 2200-2M	1250,-	36	1										
0,01	2400	572-35	640,-	30	1										
0,01	2500	PCD 2500-2	370,-	24	1										
0,01	3000	PFB 3000-2	395,-	25	1										
0,01	3000	EWJ 3000-2	560,-	29	1										
0,01	3000	572-37	650,-	30	1										
0,01	3200	PNS 3000-2	740,-	32	1										
0,01	3200	PNJ 3000-2M	890,-	32	1										
0,01	3500	PCD 3000-2	410,-	24	1										
0,01	3600	PCB 3000-2	380,-	26	1										
0,01	4200	PLS 4200-2F	900,-	31	1										
0,01	4200	EW 4200-2NM	1030,-	33	1										
0,01	4200	PLJ 4200-2F	1070,-	31	1										
0,01	4200	EG 4200-2NM	1220,-	33	1										
0,01	4200	PES 4200-2M	1180,-	36	1										
0,01	4200	PBS 4200-2M	1540,-	35	1										
0,01	4200	PEJ 4200-2M	1430,-	36	1										
0,01	4200	PBJ 4200-2M	1900,-	35	1										
0,01	4200	572-39	680,-	30	1										
0,01	6200	EW 6200-2NM	1120,-	33	1										
0,01	6200	PLS 6200-2A	1350,-	31	1										
0,01	6200	PLJ 6200-2A	1480,-	31	1										



# Quick-Finder Precision balances

Readability [d] g	Weighing capacity [Max] g	Model	Price excl. of VAT ex works €	Page											
For an explanation on the pictos, see front flap															
0,01	6200	PLJ 6200-2AM	1530,-	31	1	○	●								
0,01	6200	PES 6200-2M	1450,-	36	1			●							○
0,01	6200	PBS 6200-2M	1850,-	35	1			●							
0,01	6200	PBJ 6200-2M	2300,-	35	1	○	●								
0,01	8200	PLS 8000-2A	1540,-	31	1			●							
0,05	6000	PFB 6000-2	350,-	25	1			●							
0,05	12000	572-45	650,-	30	1			●	○						○
0,05	20000	572-55	680,-	30	1			●	○						○
0,1	400	440-43N	235,-	28	1			●							○
0,1	1000	440-45N	265,-	28	1			●							○
0,1	2000	PCB 2000-1	275,-	26	1			●	○						○
0,1	2000	440-47N	315,-	28	1			●							○
0,1	3200	PWS 3000-1	1020,-	34	1			●							○
0,1	4000	440-49N	365,-	28	1			●							○
0,1	6000	PCD 6K-4	295,-	24	1			●							○
0,1	6000	PFB 6000-1	300,-	25	1			●							
0,1	6000	PCB 6000-1	300,-	26	1			●	○						○
0,1	6000	440-49A	395,-	28	1			●							○
0,1	6000	EWJ 6000-1SM	480,-	29	1	○	●								○
0,1	6000	EWJ 6000-1M	490,-	29	1	○	●								○
0,1	8200	PWS 8000-1	1150,-	34	1			●							○
0,1	8200	PBJ 8200-1M	1890,-	35	1	○	●								
0,1	10000	PCD 10K0.1	300,-	24	1			●							○
0,1	10000	PCB 10000-1	315,-	26	1			●	○						○
0,1	10000	572-43	630,-	30	1			●	○						○
0,1	12000	PNS 12000-1	720,-	32	1			●							
0,1	12000	PNJ 12000-1M	870,-	32	1	○	●								
0,1	12000	EW 12000-1NM	880,-	33	1			●							○
0,1	15000	PES 15000-1M	1380,-	36	1			●							○
0,1	16000	572-49	640,-	30	1			●	○						○
0,1	17000	FEJ 17K-4M	3080,-	37	1	○	●								
0,1	17000	FES 17K-4	2850,-	37	1			●							
0,1	20000	PLS 20000-1F	890,-	31	1			●							
0,1	24000	572-57	660,-	30	1			●	○						○
0,1	31000	PES 31000-1M	2430,-	36	1			●							○
0,1	33000	FES 33K-4	3000,-	37	1			●							
0,1	33000	FEJ 33K-4M	3340,-	37	1	○	●								
0,1   1	6200   62000	FES 62K-4D	3300,-	37	1			●							
0,1   1	6200   62000	FEJ 62K-4DM	3650,-	37	1	○	●								
1	4000	440-51N	175,-	28	1			●							○
1	6000	PCB 6000-0	210,-	26	1			●	○						○
1	6000	440-53N	240,-	28	1			●							○
1	10000	PCD 10K-3	215,-	24	1			●							○

News 2023

● = standard

○ = option



BASIC  
★



## High-resolution precision balance with removable display for maximum flexibility

### Features

- Laboratory balance with separate platform: Ideal when working in a glove bag or fume cupboard. Particularly practical for weighing toxic, volatile or contaminated substances
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m<sup>2</sup>, 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 Ø 105 mm, plastic, with conductive lacquer
  - B W×D 160×160 mm, stainless steel, see larger picture
- Optional battery operation, 9 V block not included in scope of delivery, operating time up to 12 h, AUTO-OFF function to preserve the battery
- Overall dimensions (without draught shield) W×D×H 165×280×75 mm
- Overall dimensions (incl. draught shield) W×D×H 165×280×141 mm (PCD 250-3, PCD 300-3)
- Dimensions of display device W×D×H 140×46×82 mm
- Cable length of display device approx. approx. 1,2 m
- Net weight approx. 1,2 kg
- Permissible ambient temperature 5 °C/35 °C

### Accessories

- Protective working cover over the display device, scope of delivery: 5 items, KERN PCD-A05S05, € 44,-
- 2 Stand to elevate display device, height of stand approx. 250 mm, KERN PCD-A03, € 66,-
- Internal rechargeable battery pack, operating time up to 24 h without backlight, charging time approx. 10 h, KERN PCD-A04, € 59,-
- 3 Foot switch, ideal when the application requires two free hands. TARE or PRINT function can be selected. Scope of delivery: foot switch, junction box, connection cable. For the PRINT function you will need the RS-232 interface cable, KERN YKF-01, € 100,-
- RS-232/Ethernet adapter for connection to an IP-based Ethernet network, KERN YKI-01, € 345,-
- Individual header data: the free software can be used to print 4 header lines on the printout when using printers KERN 911-013, YKN-01, YKB-01N and YKE-01 (in combination with YKI-02)
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



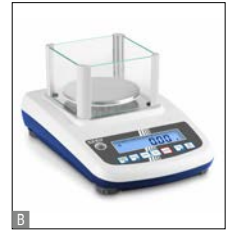
OPTION



Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option DAKkS Certificate DAKkS KERN €
KERN PCD 250-3	250	0,001	0,002	± 0,005	A	385,-	963-127 93,-
PCD 300-3	350	0,001	0,002	± 0,005	A	415,-	963-127 93,-
PCD 2500-2	2500	0,01	0,02	± 0,05	B	370,-	963-127 93,-
PCD 3000-2	3500	0,01	0,02	± 0,05	B	410,-	963-127 93,-
PCD 6K-4	6000	0,1	0,1	± 0,3	B	295,-	963-128 112,-
PCD 10K0.1	10000	0,1	0,1	± 0,3	B	300,-	963-128 112,-
PCD 10K-3	10000	1	1	± 3	B	215,-	963-128 112,-



BASIC  
★



03

Quick-display precision balance with user-friendly concept of operation mode – 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 bargraph display lights up to show how much of the weighing range is still available
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard, to give the most accurate weighing result
- Draught shield standard for models with weighing plate size **A** ø 80 mm, **B** ø 120 mm, Weighing space W×D×H 116×111×65 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 190×180 mm, see larger picture
- Overall dimensions (without draught shield) W×D×H 210×315×90 mm
- Permissible ambient temperature 15 °C/30 °C

**Accessories**

- Protective working cover, scope of delivery 5 items, KERN PFB-A12S05, € 44,-
- Bluetooth data interface for wireless data transfer to PC or tablets, must be ordered at purchase
  - Bluetooth 2.0: KERN PFB-A10, € 105,-
  - Bluetooth 4.0: KERN PFB-A11, € 155,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

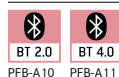
STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Price excl. of VAT ex works €	Option	
							DAKKS KERN	Calibr. Certificate DAKKS €
<b>PFB 120-3</b>	120	0,001	0,001	± 0,003	<b>A</b>	<b>400,-</b>	963-127	93,-
<b>PFB 200-3</b>	200	0,001	0,002	± 0,005	<b>A</b>	<b>410,-</b>	963-127	93,-
<b>PFB 300-3</b>	300	0,001	0,002	± 0,005	<b>A</b>	<b>450,-</b>	963-127	93,-
<b>PFB 600-2</b>	600	0,01	0,01	± 0,03	<b>B</b>	<b>330,-</b>	963-127	93,-
<b>PFB 1200-2</b>	1200	0,01	0,01	± 0,03	<b>B</b>	<b>345,-</b>	963-127	93,-
<b>PFB 2000-2</b>	2000	0,01	0,02	± 0,05	<b>B</b>	<b>370,-</b>	963-127	93,-
<b>PFB 3000-2</b>	3000	0,01	0,02	± 0,05	<b>B</b>	<b>395,-</b>	963-127	93,-
<b>PFB 6000-2</b>	6000	0,05	0,05	± 0,15	<b>C</b>	<b>350,-</b>	963-128	112,-
<b>PFB 6000-1</b>	6000	0,1	0,1	± 0,3	<b>C</b>	<b>300,-</b>	963-128	112,-



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

#### Features

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

- PCs, smartphones, tablets, laptops, printers etc. In addition, control commands and data inputs can also be sent to the scale via the connected devices. Tip: with the KERN KUP-13 extension box, up to three KUP interface adapters can be operated in parallel on the scale.
- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers. for details see page 8/9
- Standardised, simplified concept of operation
- PRE-TARE function for manual subtraction of a known container weight, useful for checking fill-levels
- With the recipe function you can weigh the different ingredients of a mixture. As a check, you can also call up the total weight of all the ingredients

- Weighing with tolerance range (checkweighing): a visual signal helps with portioning, dispensing or grading
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m<sup>2</sup>, or similar
- A special Anti-Shock system between the weighing plate and weighing cell reduces vibrations during the weighing process and in this way ensures rapid, reliable weighing results
- Ring-shaped draught shield standard, only for models with weighing plate size A, Ø 82 mm, weighing space Ø×H 90×40 mm
- Protective working cover included with delivery



**Technical data**

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

**Accessories**

- Protective working cover, scope of delivery: 5 items, KERN YBA-A12S05, **€ 44,-**
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, **€ 35,-**
- External data interface RS-232, Interface cable included, KERN YKUP-01, **€ 68,-**
- External data interface USB, Interface cable included, KERN YKUP-03, **€ 98,-**
- External data interface Ethernet, KERN YKUP-04, **€ 125,-**
- WiFi interface adapter, KERN YKUP-05, **€ 98,-**
- Extension-Box, KERN YKUP-13, **€ 98,-**
- Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs, For more details see the internet, Scope of supplies: 1 CD, 1 license, KERN SCD-4.0, **€ 189,-**
- 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	Weighing capacity [Max]	Readability	Reproducibility	Linearity	Weighing plate	Price excl. of VAT ex works €	Option DAKKS Calibr. Certificate DAKKS KERN	Dertificate €
<b>KERN PCB 200-3</b>	200 g	0,001 g	0,001 g	± 0,005 g	<b>A</b>	<b>375,-</b>	963-127	93,-
<b>PCB 300-3</b>	360 g	0,001 g	0,001 g	± 0,005 g	<b>A</b>	<b>390,-</b>	963-127	93,-
<b>PCB 300-2</b>	300 g	0,01 g	0,01 g	± 0,02 g	<b>B</b>	<b>295,-</b>	963-127	93,-
<b>PCB 1000-2</b>	1000 g	0,01 g	0,01 g	± 0,03 g	<b>C</b>	<b>355,-</b>	963-127	93,-
<b>PCB 3000-2</b>	3600 g	0,01 g	0,01 g	± 0,05 g	<b>C</b>	<b>380,-</b>	963-127	93,-
<b>PCB 2000-1</b>	2000 g	0,1 g	0,1 g	± 0,2 g	<b>C</b>	<b>275,-</b>	963-127	93,-
<b>PCB 6000-1</b>	6000 g	0,1 g	0,1 g	± 0,3 g	<b>D</b>	<b>300,-</b>	963-128	112,-
<b>PCB 10000-1</b>	10000 g	0,1 g	0,1 g	± 0,3 g	<b>D</b>	<b>315,-</b>	963-128	112,-
<b>PCB 6000-0</b>	6000 g	1 g	1 g	± 2 g	<b>D</b>	<b>210,-</b>	963-128	112,-



BASIC  
★★

EasyTouch



## 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**  $\varnothing$  81 mm, weighing space  $\varnothing \times H$  90×40 mm
- Protective working cover included with delivery

### Technical data

- Backlit LCD display, digit height 15 mm
- Dimensions weighing surface, weighing plate material
  - A**  $\varnothing$  81 mm, plastic, with conductive lacquer
  - B**  $\varnothing$  105 mm, stainless steel
  - C** W×D 130×130 mm, stainless steel
  - D** W×D 150×170 mm, stainless steel, see larger picture
- Overall dimensions W×D×H 165×230×80 mm (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
- Net weight approx. 0,95 kg
- Permissible ambient temperature 5 °C/35 °C

### Accessories

- Protective working cover, scope of delivery: 5 items, for models with weighing plate size
  - A** KERN 440-210-002S05, € 44,-
  - B** KERN 440-330-002S05, € 44,-
  - C** KERN 440-450-002S05, € 44,-
  - D** KERN 440-530-002S05, € 44,-
- Internal rechargeable battery pack, operating time up to 20 h without backlight, charging time approx. 10 h, KERN FCB-A01, € 54,-
- Hook for underfloor weighing, KERN 440-A01, € 27,-
- RS-232/Ethernet adapter for connection to an IP-based Ethernet network, KERN YKI-01, € 345,-
- 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	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Weighing plate	Price		
						Price excl. of VAT ex works €	Option DAkKS Calibr. DAkKS KERN	Certificate Certificate €
<b>440-21A</b>	60	0,001	0,001	± 0,003	<b>A</b>	<b>395,-</b>	963-127	93,-
<b>440-33N</b>	200	0,01	0,01	± 0,02	<b>B</b>	<b>315,-</b>	963-127	93,-
<b>440-35N</b>	400	0,01	0,01	± 0,03	<b>B</b>	<b>365,-</b>	963-127	93,-
<b>440-35A</b>	600	0,01	0,01	± 0,03	<b>B</b>	<b>395,-</b>	963-127	93,-
<b>440-43N</b>	400	0,1	0,1	± 0,2	<b>C</b>	<b>235,-</b>	963-127	93,-
<b>440-45N</b>	1000	0,1	0,1	± 0,2	<b>C</b>	<b>265,-</b>	963-127	93,-
<b>440-47N</b>	2000	0,1	0,1	± 0,2	<b>C</b>	<b>315,-</b>	963-127	93,-
<b>440-49N</b>	4000	0,1	0,1	± 0,3	<b>D</b>	<b>365,-</b>	963-127	93,-
<b>440-49A</b>	6000	0,1	0,1	± 0,3	<b>D</b>	<b>395,-</b>	963-128	112,-
<b>440-51N</b>	4000	1	1	± 2	<b>D</b>	<b>175,-</b>	963-127	93,-
<b>440-53N</b>	6000	1	1	± 2	<b>D</b>	<b>240,-</b>	963-128	112,-



## 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 bargraph display lights up to show how much of the weighing range is still available
- KERN EWJ-H/-M: USB data interface for transferring weighing data to the PC, printer etc.
- KERN EWJ-SM: Cost-effective variant without data interfaces
- KERN EWJ 300-3, 600-2M, 600-2SM: Draught shield standard, 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 155×175×217 mm
- Protective working cover included with delivery

### Technical data

- Large LCD display, digit height 16,5 mm
- Dimensions weighing surface
  - A** Ø 80 mm, stainless steel
  - B** Ø 120 mm, stainless steel
  - C** Ø 135 mm, stainless steel, see larger picture
  - D** W×D 155×145 mm, stainless steel
- Overall dimensions (without draught shield) W×D×H
  - A, B** 220×315×90 mm
  - C** 220×315×105 mm
  - D** 215×330×105 mm
- Overall dimensions (incl. draught shield) W×D×H
  - EWJ 300-3, 600-2M, 600-2SM: 220×340×180 mm
  - EWJ 300-3H: 220×340×321 mm
- Permissible ambient temperature
  - KERN EWJ: 15 °C/35 °C
  - KERN EWJ-M: 15 °C/30 °C

### Accessories

- Protective working cover, scope of delivery 5 items, KERN EWJ-A04S05, € 44,-
- Internal rechargeable battery pack, operating time up to 20 h without backlight, charging time approx. 12 h, KERN KFB-A01, € 40,-
- KERN EWJ-H/-M: Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs, for more details see the internet, Scope of supplies: 1 CD, 1 license, KERN SCD-4.0, € 189,-
- RS-232/WiFi adapter for wireless connection to networks and WiFi capable devices, such as tablets, laptops or smartphones, KERN YKI-03, € 820,-
- RS-232/Ethernet adapter for connection to an IP-based Ethernet network, KERN YKI-01, € 345,-
- Further details, plenty of further accessories and suitable printers see *Accessories*

#### STANDARD



#### OPTION



#### FACTORY



Model	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 €	Verification KERN €	Option DAKKS Calibr. Certificate DAKKS KERN €
<b>KERN EWJ 300-3</b>	300	0,001	-	-	± 0,005	<b>A</b>	<b>600,-</b>	-	- 963-127 93,-
<b>KERN EWJ 300-3H</b>	300	0,001	-	-	± 0,005	<b>A</b>	<b>680,-</b>	-	- 963-127 93,-
<b>KERN EWJ 3000-2</b>	3000	0,01	-	-	± 0,05	<b>C</b>	<b>560,-</b>	-	- 963-127 93,-
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.									
<b>KERN EWJ 600-2SM</b>	600	0,01	0,1	0,5	± 0,03	<b>B</b>	<b>500,-</b>	965-216 80,-	963-127 93,-
<b>KERN EWJ 600-2M</b>	600	0,01	0,1	0,5	± 0,03	<b>B</b>	<b>510,-</b>	965-216 80,-	963-127 93,-
<b>KERN EWJ 6000-1SM</b>	6000	0,1	1	5	± 0,3	<b>D</b>	<b>480,-</b>	965-217 93,-	963-128 112,-
<b>KERN EWJ 6000-1M</b>	6000	0,1	1	5	± 0,3	<b>D</b>	<b>490,-</b>	965-217 93,-	963-128 112,-





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

**Features**

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

- KERN Communication Protocol (KCP): The KCP permits searching and remote control of the balance using external control devices or computers, for details see page 8/9
- Standardised, simplified concept of operation
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, paper weight g/m<sup>2</sup>, 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** ø 106 mm, weighing space ø×H 157×43 mm
- Level indicator to level the balance precisely
- 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 21 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 (without draught shield) W×D×H 180×310×85 mm
- Net weight **A, B** approx. 2,4 kg
  - C** approx. 2,8 kg
- Permissible ambient temperature -10 °C/40 °C

**Accessories**

- Protective working cover, scope of delivery: 5 items, KERN 572-A02S05, **€ 44,-**
- Internal rechargeable battery pack, operating time up to 48 h without backlight, charging time approx. 8 h, KERN YKR-01, **€ 35,-**
- External data interface RS-232, interface cable included, KERN YKUP-01, **€ 68,-**
- External data interface USB, interface cable included, KERN YKUP-03, **€ 98,-**
- Extension-Box, KERN YKUP-13, **€ 98,-**
- Loop and hook for underfloor weighing, for models with [d] ≥ 0,01 g, KERN 572-A03, **€ 25,-**
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 150×140×130 mm, for models with weighing plate size **A**, KERN 572-A05, **€ 250,-**

STANDARD: CAL EXT, KUP, KCP, GLP, PCS, RECIPE, PERCENT, UNIT, TOL, MOVE, UNDER, MULTI, DMS, 1 DAY

OPTION: ET, RS 232, USB, DAKKS, +3 DAYS

FACTORY: ACCU

Model	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	640,-	963-127 93,-
572-31	300	0,001	0,002	± 0,005	300.000	A	650,-	963-127 93,-
572-32	420	0,001	0,002	± 0,005	420.000	A	680,-	963-127 93,-
572-33	1600	0,01	0,01	± 0,03	160.000	B	600,-	963-127 93,-
572-35	2400	0,01	0,01	± 0,03	240.000	B	640,-	963-127 93,-
572-37	3000	0,01	0,02	± 0,05	300.000	B	650,-	963-127 93,-
572-39	4200	0,01	0,02	± 0,05	420.000	B	680,-	963-127 93,-
572-45	12000	0,05	0,05	± 0,15	240.000	C	650,-	963-128 112,-
572-55	20000	0,05	0,1	± 0,25	400.000	C	680,-	963-128 112,-
572-43	10000	0,1	0,1	± 0,3	100.000	C	630,-	963-128 112,-
572-49	16000	0,1	0,1	± 0,3	160.000	C	640,-	963-128 112,-
572-57	24000	0,1	0,1	± 0,3	240.000	C	660,-	963-128 112,-





STANDARD  
★★



03

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

### Features

- 1 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
- Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display
- Rapid and efficient operation thanks to the graphics display. Simple, clear user interface on the display in the following languages: DE, EN, FR, IT, ES, PT
- Dosage aid: High stability mode and other filter settings can be selected

- 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
- 2 PLJ 2000-3A: High-quality milligram balance with enormous weighing range up to 2100 g – ideal for large samples or heavy tare containers. Large glass draught shield for easy access to the items being weighed. Weighing space W×D×H 160×170×225 mm, standard
- Ring-shaped draught shield standard, only for models with weighing plate size  $\varnothing$  110 mm, weighing space  $\varnothing$ ×H 150×60 mm

- Protective working cover included with delivery

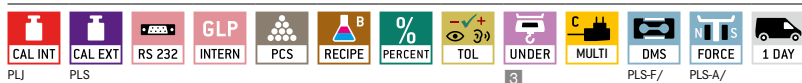
### Technical data

- Backlit LCD Graphic display, digit height 15 mm
- Dimensions weighing surface
  - A  $\varnothing$  110 mm, stainless steel
  - B  $\varnothing$  160 mm, stainless steel, see larger picture
  - C W×D 200×175 mm, stainless steel
- Permissible ambient temperature 15 °C/35 °C

### Accessories

- Protective working cover, scope of delivery 5 items, KERN PLJ-A01S05, € 44,-
- 3 Hook f. underfloor weighing, KERN PLJ-A02, € 32,-
- Set for density determination of liquids and solids for models with [d] = 0,001 g, KERN ALT-A02, € 900,-
- Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, € 10,-
- Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ), for details see page 216

### STANDARD



### OPTION



### FACTORY



Model	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	DAkkS	Calibr. Certificate	
<b>KERN</b>								<b>M</b>	<b>DAkkS</b>	<b>KERN</b>	€
PLS 420-3F	420	0,001	-	-	± 0,004	A	950,-	-	-	963-127	93,-
PLS 720-3A	720	0,001	-	-	± 0,002	A	1340,-	-	-	963-103	154,-
PLS 1200-3A	1200	0,001	-	-	± 0,003	A	1370,-	-	-	963-103	154,-
PLS 4200-2F	4200	0,01	-	-	± 0,04	B	900,-	-	-	963-127	93,-
PLS 6200-2A	6200	0,01	-	-	± 0,03	B	1350,-	-	-	963-104	175,-
PLS 8000-2A	8200	0,01	-	-	± 0,04	B	1540,-	-	-	963-104	175,-
PLS 20000-1F	20000	0,1	-	-	± 0,4	C	890,-	-	-	963-128	112,-
<b>PLJ</b>											
PLJ 420-3F	420	0,001	-	-	± 0,003	A	1090,-	-	-	963-127	93,-
PLJ 720-3A	720	0,001	-	-	± 0,002	A	1490,-	-	-	963-103	154,-
PLJ 1200-3A	1200	0,001	-	-	± 0,003	A	1530,-	-	-	963-103	154,-
PLJ 2000-3A	2100	0,001	-	-	± 0,004	A	2100,-	-	-	963-103	154,-
PLJ 4200-2F	4200	0,01	-	-	± 0,04	B	1070,-	-	-	963-127	93,-
PLJ 6200-2A	6200	0,01	-	-	± 0,03	B	1480,-	-	-	963-104	175,-

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 720-3AM	720	0,001	0,01	0,02	± 0,002	A	1530,-	965-216	80,-	963-103	154,-
PLJ 6200-2AM	6200	0,01	0,1	0,5	± 0,03	B	1530,-	965-217	93,-	963-104	175,-

STANDARD



EasyTouch



03



The new standard in the laboratory with robust tuning fork weighing system, also with EC type approval [M]

Features

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

- **A** Large glass draught shield with 3 sliding doors for easy access to the items being weighed, for models with weighing plate size  $\varnothing$  140 mm, Weighing space WxDxH 172x171x160 mm
- Protective working cover included with delivery

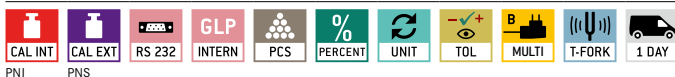
Technical data

- Large LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel
  - A**  $\varnothing$  140 mm
  - B** WxD 190x190 mm, see larger picture
- Overall dimensions WxDxH, without draught shield
  - A** 196x293x266 mm, **B** 196x293x89 mm
- Net weight
  - A** approx. 4,2 kg, **B** approx. 3,6 kg
- Permissible ambient temperature 5 °C/40 °C

Accessories

- Protective working cover, scope of delivery 5 items, KERN PNJ-A01S05, **€ 44,-**
- RS-232/Bluetooth adapter to connect to Bluetooth capable devices, such as Bluetooth printers, tablets, laptops, smartphones, etc., KERN YKI-02, **€ 345,-**
- RS-232/WiFi adapter for wireless connection to networks and WiFi capable devices, such as tablets, laptops or smartphones, KERN YKI-03, **€ 820,-**
- RS-232/Ethernet adapter for connection to an IP-based Ethernet network, KERN YKI-01, **€ 345,-**
- **1** Gemstones plate, aluminium with practical spout, WxDxH 130x80x30 mm, KERN AEJ-A05, **€ 43,-**
- Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, **€ 10,-**
- Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ), for details see page 216
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	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 KERN	DAkkS	Certificate KERN	
KERN PNS 600-3	620	0,001	-	-	± 0,004	<b>A</b>	<b>820,-</b>	-	-	963-103	154,-
KERN PNS 3000-2	3200	0,01	-	-	± 0,02	<b>B</b>	<b>740,-</b>	-	-	963-127	93,-
KERN PNS 12000-1	12000	0,1	-	-	± 0,2	<b>B</b>	<b>720,-</b>	-	-	963-128	112,-
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.											
PNJ 600-3M	620	0,001	0,01	0,02	± 0,004	<b>A</b>	<b>950,-</b>	965-216	80,-	963-103	154,-
PNJ 3000-2M	3200	0,01	0,1	0,5	± 0,02	<b>B</b>	<b>890,-</b>	965-216	80,-	963-127	93,-
PNJ 12000-1M	12000	0,1	1	5	± 0,2	<b>B</b>	<b>870,-</b>	965-217	93,-	963-128	112,-



STANDARD



EasyTouch



03

- Net weight **A**, **B** approx. 2,0 kg, **C** approx. 4,0 kg
- Permissible ambient temperature 10°C/30°C

## The classic balance with robust tuning fork measuring system

### Features

- **1** KERN EG-N: 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 EW-N: Adjusting program CAL for quick setting of the balance accuracy using an external test weight at an additional price, see *test weights*
- Stable temperature behaviour
- Short stabilisation time
- Shock proof construction
- High corner load performance
- Capacity display: A bargraph display lights up to show how much of the weighing range is still available

- 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

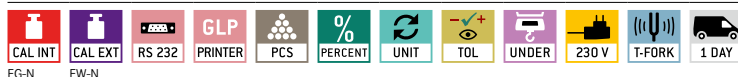
### Technical data

- Large LCD display, digit height 17 mm
- Dimensions weighing surface
  - A** Ø 118 mm, stainless steel, see larger picture
  - B** W×D 170×140 mm, stainless steel
  - C** W×D 180×160 mm, stainless steel
- Overall dimensions W×D×H (without draught shield) **A**, **B** 182×235×65 mm, **C** 265×192×87 mm

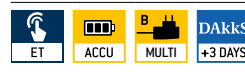
### Accessories

- Protective working cover, scope of delivery: 5 items, for models with weighing plate size **A**, **B** KERN EG-A05S05, € 44,-  
**C** KERN EG-A09S05, € 44,-
- Internal rechargeable battery pack, operating time up to 32 h without backlight, charging time approx. 12 h, for models with weighing plate size **A**, **B** KERN EG-A04, € 130,-  
**C** KERN EG-A06, € 130,-
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed. Weighing space W×D×H 150×140×130 mm, KERN EG-A03, € 270,-
- Loop for underfloor weighing, for models with weighing plate size **A**, **B** KERN EG-A07, € 46,-  
**C** KERN EG-A08, € 46,-
- Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, € 10,-
- Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ)
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



FACTORY



Model	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  KERN	€	DAkkS Calibr. Certificate DAkkS KERN	€
<b>KERN</b>											
<b>EW 220-3NM</b>	220	0,001	-	-	± 0,002	<b>A</b>	<b>840,-</b>	-	-	963-127	93,-
<b>EW 420-3NM</b>	420	0,001	-	-	± 0,003	<b>A</b>	<b>970,-</b>	-	-	963-127	93,-
<b>EW 620-3NM</b>	620	0,001	-	-	± 0,003	<b>A</b>	<b>1080,-</b>	-	-	963-103	154,-
<b>EW 820-2NM</b>	820	0,01	-	-	± 0,01	<b>B</b>	<b>760,-</b>	-	-	963-127	93,-
<b>EW 2200-2NM</b>	2200	0,01	-	-	± 0,01	<b>C</b>	<b>930,-</b>	-	-	963-127	93,-
<b>EW 4200-2NM</b>	4200	0,01	-	-	± 0,02	<b>C</b>	<b>1030,-</b>	-	-	963-127	93,-
<b>EW 6200-2NM</b>	6200	0,01	-	-	± 0,03	<b>C</b>	<b>1120,-</b>	-	-	963-104	175,-
<b>EW 12000-1NM</b>	12000	0,1	-	-	± 0,2	<b>C</b>	<b>880,-</b>	-	-	963-128	112,-

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.

<b>EG 220-3NM</b>	220	0,001	0,01	0,02	± 0,002	<b>A</b>	<b>1060,-</b>	965-216	80,-	963-127	93,-
<b>EG 420-3NM</b>	420	0,001	0,01	0,02	± 0,003	<b>A</b>	<b>1160,-</b>	965-216	80,-	963-127	93,-
<b>EG 620-3NM</b>	620	0,001	0,01	0,1	± 0,004	<b>A</b>	<b>1300,-</b>	965-201	136,-	963-103	154,-
<b>EG 2200-2NM</b>	2200	0,01	0,1	0,5	± 0,01	<b>C</b>	<b>1110,-</b>	965-216	80,-	963-127	93,-
<b>EG 4200-2NM</b>	4200	0,01	0,1	0,5	± 0,02	<b>C</b>	<b>1220,-</b>	965-216	80,-	963-127	93,-

**NEW** **STANDARD**  
★★



03

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

### Features

- High-quality tuning fork measuring system for steady weight values and continuous weighing
- Thanks to the stainless steel design of the housing and platform with smooth surface, the scale is rust-free and easy to clean
- Dust and spray protection to IP65 (in accordance with EN 60529)
- Level indicator and levelling feet for precise levelling of the scale, fitted as standard
- RS-232 data interface for connection to a printer as standard
- 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** WxD 190x190 mm, see larger picture
- Overall dimensions WxDxH 310x208x87 mm
- Net weight approx. 1,6 kg
- Permissible ambient temperature 10 °C/30 °C

### Accessories

- Loop for underfloor weighing, KERN EG-A07, **€ 46,-**
- Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs, for more details see the internet, Scope of supplies: 1 CD, 1 license, KERN SCD-4.0, **€ 189,-**
- **I** Battery insert, enables mobile weighing, Operating time 200 h, KERN PWS-A01, **€ 110,-**
- Interface cable RS-232 to connect an external device, Dust and spray protection to IP65 (in accordance with EN 60529), KERN PWS-A02, **€ 400,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

STANDARD



OPTION



Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Weighing plate	Price excl. of VAT ex works €	Option DAKKS	Calibr. KERN	Certificate €
KERN PWS 800-2	820 g	0,01 g	0,01 g	± 0,01 g	A	1120,-	963-127	93,-	
KERN PWS 3000-1	3200 g	0,1 g	0,1 g	± 0,1 g	B	1020,-	963-127	93,-	
KERN PWS 8000-1	8200 g	0,1 g	0,1 g	± 0,1 g	B	1150,-	963-128	112,-	

**I** EXPECTED TO BE AVAILABLE FROM MARCH 2023





03

## Multifunctional laboratory balance with single-cell weighing system, also with EC type approval [M]

### Features

- KERN PBS: Adjusting program CAL for quick setting of the balance accuracy using an external test weight at an additional price, see *test weights*
- KERN PBJ: Internal adjustment in the case of a change in temperature and time-controlled at defined intervals, guarantees high degree of accuracy and makes the balance independent of its location of use
- Metal housing: robust and sturdy
- Dosage aid: High stability mode and other filter settings can be selected
- Weighing with tolerance range (checkweighing): a visual signal helps with portioning, dispensing or grading
- 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
- **A** 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 (without draught shield) W×D×H: 209×322×78 mm
- Net weight approx. 3,2 kg
- Permissible ambient temperature 10 °C/30 °C

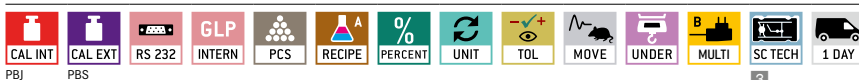
### Accessories

- Protective working cover, scope of delivery: 5 items, for models with weighing plate size
  - A** KERN PBS-A01S05, € 44,-
  - B** KERN PBS-A02S05, € 44,-
- **1** Set for density determination of liquids and solids with density ≥ 1, for models with weighing plate size
  - A** KERN PBS-A04, € 2050,-
  - B** KERN PBS-A03, € 2050,-
- RS-232/Ethernet adapter for connection to an IP-based Ethernet network, KERN YKI-01, € 345,-
- Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, € 10,-
- Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ)
- Further details, plenty of further accessories and suitable printers see *Accessories*

### 2 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



### OPTION



### FACTORY



Model	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	DAkkS	Calibr. Certificate	
KERN								KERN	€	DAkkS KERN	€
PBS 620-3M	620	0,001	-	-	± 0,002	<b>A</b>	1820,-	-	-	963-103	154,-
PBS 4200-2M	4200	0,01	-	-	± 0,02	<b>B</b>	1540,-	-	-	963-127	93,-
PBS 6200-2M	6200	0,01	-	-	± 0,02	<b>B</b>	1850,-	-	-	963-104	175,-

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.

PBJ 620-3M	620	0,001	0,01	0,1	± 0,002	<b>A</b>	2140,-	965-201	136,-	963-103	154,-
PBJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	<b>B</b>	1900,-	965-216	80,-	963-127	93,-
PBJ 6200-2M	6200	0,01	0,1	1	± 0,02	<b>B</b>	2300,-	965-202	136,-	963-104	175,-
PBJ 8200-1M	8200	0,1	1	5	± 0,2	<b>B</b>	1890,-	965-217	93,-	963-128	112,-

PREMIUM



EasyTouch



- Net weight **A** approx. 3,6 kg, **B** approx. 4,4 kg, **C** approx. 10 kg
- Permissible ambient temperature 10 °C/30 °C

**Accessories**

- **A**, **B**: Protective working cover, scope of delivery: 5 items, KERN PES-A04S05, **€ 44,-**
- KERN PES: Internal rechargeable battery pack, operating time up to 32 h without backlight, charging time approx. 15 h, KERN PES-A01, **€ 690,-**
- Loop for underfloor weighing, for models with weighing plate size **B**, KERN PES-A03, **€ 43,-**
- Relay output to connect relays, signal lamps, valves etc., 5 outputs for weighing in 3 tolerance ranges, must be ordered at purchase, KERN PES-A02, **€ 550,-**
- RS-232/Ethernet adapter for connection to an IP-based Ethernet network, KERN YKI-01, **€ 345,-**
- Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, **€ 10,-**
- Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ)
- Further details, plenty of further accessories and suitable printers see *Accessories*

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

**Features**

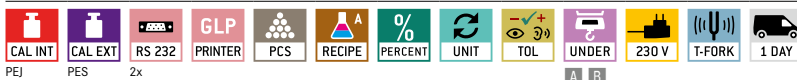
- KERN PES: Adjusting program CAL for quick setting of the balance accuracy using an external test weight at an additional price, see *test weights*
- KERN PEJ: Automatic internal adjustment, guarantees high degree of accuracy and makes the balance independent of its location of use
- Metal housing: robust and sturdy
- Weighing with tolerance range (checkweighing): Input of two upper and two lower limit values through four arrow keys. An audible and visual signal assists with the portioning, dispensing or grading
- **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 hook on the underside of the balance for models with [d] = 0,001 g, [d] = 0,01 g

- [d] = 0,001 g hook included with the delivery, [d] = 0,01 g/0,01 g hook not included with the delivery
- **A**, **B**: Protective working cover included with delivery

**Technical data**

- Fluorescent display, bright with high contrast, digit height 14 mm
- Dimensions weighing surface
  - A** W×D 140×120 mm, stainless steel
  - B** W×D 200×200 mm, stainless steel, see larger picture
  - C** W×D 250×220 mm, stainless steel
- Overall dimensions (without draught shield) W×D×H
  - A** 220×330×90 mm
  - B** 220×339×80 mm
  - C** 260×330×113 mm

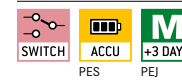
STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Linearity	Weighing plate	Price excl. of VAT ex works	Verification	Option
KERN	g	g	g	g	g		€	KERN	DAkkS Calibr. Certificate
								€	DAkkS
PES 620-3M	620	0,001	-	-	± 0,003	<b>A</b>	1400,-	-	963-103 154,-
PES 2200-2M	2200	0,01	-	-	± 0,02	<b>B</b>	990,-	-	963-127 93,-
PES 4200-2M	4200	0,01	-	-	± 0,02	<b>B</b>	1180,-	-	963-127 93,-
PES 6200-2M	6200	0,01	-	-	± 0,03	<b>B</b>	1450,-	-	963-104 175,-
PES 15000-1M	15000	0,1	-	-	± 0,2	<b>B</b>	1380,-	-	963-128 112,-
PES 31000-1M	31000	0,1	-	-	± 0,4	<b>C</b>	2430,-	-	963-128 112,-

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	<b>A</b>	1660,-	965-201 (I)	136,-	963-103	154,-
PEJ 2200-2M	2200	0,01	0,1	0,5	± 0,02	<b>B</b>	1250,-	965-216 (II)	80,-	963-127	93,-
PEJ 4200-2M	4200	0,01	0,1	0,5	± 0,02	<b>B</b>	1430,-	965-216 (II)	80,-	963-127	93,-



**NEW** **PREMIUM**  
★★



03

## High-capacity precision balance with password-protected user administration, also with EC type approval [M]

### Features

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

- Dust and spray protection to IP65 (in accordance with EN 60529)
- U.S. FDA 21 Part 11: assists you in data integrity in accordance with U.S. FDA 21 Part 11 (for example weighing result, sample ID, user name, scales ID, ...)
- Protective working cover included with delivery

### Technical data

- Large backlit LCD display, digit height 16,5 mm
- Dimensions weighing surface, stainless steel, W×D 350×400 mm
- Dimensions of display device W×D×H 290×180×60 mm
- Overall dimensions W×D×H 350×520×170 mm
- Net weight approx. 19 kg
- Permissible ambient temperature 5 °C/35 °C

### Accessories

- Protective working cover, scope of delivery 5 items, KERN FEJ-A02S05, **€ 44,-**
- Relay output with 5 outputs for weighing in 3 tolerance ranges, KERN FEJ-A07, **€ 565,-**
- 1 Stand to elevate display device, height of stand approx. 700 mm, KERN FEJ-A05, **€ 160,-**
- Interface cable RS-232 to connect an external device, dust and spray protection to IP65 (in accordance with EN 60529), KERN PWS-A02, **€ 400,-**
- 2 Loop for underfloor weighing, KERN FEJ-A06, **€ 235,-**
- Further details, plenty of further accessories and suitable printers see *Accessories*

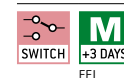
### STANDARD



### OPTION



### FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Reproducibility	Linearity	Price excl. of VAT ex works €	Verification KERN	Option DAKkS Calibr. Certificate DAKkS KERN	Certificate €
KERN	kg	g	g	g	g	g	€	KERN	€	€
FES 17K-4	17	0,1	-	5	0,1	± 0,3	2850,-	-	-	963-128 112,-
FES 33K-4	33	0,1	-	5	0,1	± 0,3	3000,-	-	-	963-128 112,-
FES 62K-4D	6,2   62	0,1   1	-	5	0,1   1	± 0,3   3	3300,-	-	-	963-129 139,-
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.										
FEJ 17K-4M	17	0,1	1	5	0,1	± 0,3	3080,-	965-217	93,-	963-128 112,-
FEJ 33K-4M	33	0,1	1	5	0,1	± 0,3	3340,-	965-217	93,-	963-128 112,-
FEJ 62K-4DM	6,2   62	0,1   1	1	5	0,1   1	± 0,3   3	3650,-	965-218	125,-	963-129 139,-

EXPECTED TO BE AVAILABLE FROM MARCH 2023

# KERN & SOHN – The wide range of product champion that is situated in the Swabian Alb

KERN & SOHN GmbH  
Balances, Test weights, Microscopes,  
DAkkS calibration laboratory  
Ziegelei 1  
72336 Balingen  
Germany  
Tel. +49 7433 9933-0  
info@kern-sohn.com



Printed in Germany by KERN & SOHN GmbH · z-ob-en-kp-20231

## Discover the vast world of scales and measuring technology from KERN online: kern-sohn.com



Follow us also on our social media  
channels

