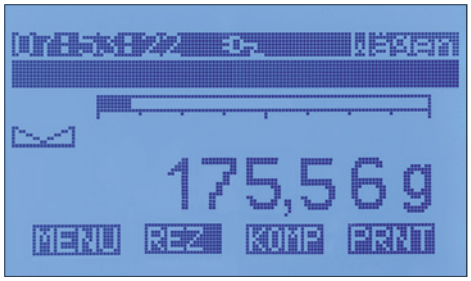
Precision balance KERN PKS





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

Laboratory specialist with clear easy graphic for easy user guidance



Weighing with tolerance range (checkweighing): Input of an upper/lower limit value. A visual signal assists with portioning, dispensing or grading



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



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

Precision balance KERN PKS







Features

- Based on the KERN bestseller KB, many typical laboratory functions have been expanded to include a clear graphic screen, which shows the relevant information and makes it significantly easier to operate and read the weights off the display
- 1 **Navigation pad** for super quick navigating through the menus
- **40 memories for each operation mode**
- Extensive print formatting - up to 20 lines with fixed and variable texts
- **High mobility**: thanks to rechargeable battery operation (optional), compact, lightweight construction, it is suitable for the use in several locations (laboratory, production, quality control, commissioning, ...)
- **Ring-shaped draught shield** standard for models with weighing plate size A, weighing space ØxH 90x53 mm
- **Hook for underfloor weighing** of hanging loads standard

Technical data

- Large backlit LCD graphic display, screen diagonal 3,2" (approx. 81 mm)
- Weighing plate dimensions
  - A Ø 81 mm
  - B WxD 130x130 mm
  - C WxD 150x170 mm, see larger picture
- Weighing plate material
  - A Plastic, with conductive lacquer
  - B, C Stainless steel
- Dimensions housing WxDxH 167x250x85 mm
- Permissible ambient temperature 10 °C / 40 °C

Accessories

- **Protective working cover** over keyboard and housing, standard, can be retrofitted, for models with weighing plate size
  - A KERN PCB-A02
  - B KERN PCB-A04
  - C KERN PCB-A05
- **Rechargeable battery pack external** Operating time up to 15 hours with backlight, charging time approx. 10 h, KERN KS-A01
- **Rechargeable battery pack internal**, Operating time up to 10 hours with backlight, charging time approx. 10 h, KERN KB-A01N
- **RS-232/Ethernet adapter** to connect balances with an RS-232 interface to a network, via Ethernet, for details see page 158, KERN YKI-01
- **Suitable test weights**, also with calibration certificate, see the internet
- **Suitable printers** and an extensive accessories range, see page 157 ff.

Modes

① Weighing
② Counting
③ Dispensing
④ Recipe weighing
⑤ Checkweighing
⑥ Totalizing with daily total
⑦ Percentage determination
⑧ Animal weighing
⑨ Surface weight

Funcitons

- Capacity display, with ① - ②, ⑤ - ⑦, ⑨
- Dispensing assistance (-/+), with ③, ④
- Net/Gross display, permanently with ①, ③ - ⑤, ⑧ - ⑨
- Variable reference quantity, with ②
- Automatic reference optimization, with ②
- Tare deduction numerical or from the memory unit, with, ① - ⑦
- Entering of item or batch description, operator etc., with ① - ⑦
- Freely programmable weighing unit, e.g. display direct in special units such as length of thread g/m, grammage g/m², or similar, with ⑨
- Date/time, with ① - ⑨
- Statistical function, with ①
- GLP printout, with ① - ⑨
- Individual formatting of print-outs, with ① - ⑨

STANDARD

CAL EXT · MEMORY · RS 232 · PRINTER · PCS · RECIPE · PERCENT · UNIT · TOL · MOVE · UNDER · 230 V · DMS · 1 DAY · 3 YEARS WARRANTY

OPTION

ACCU · DAkkS +3 DAYS

Model KERN	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Min. piece weight [Counting] g/piece	Net weight approx. kg	Weighing plate		Option DAkkS Calibr. Certificate DAkkS KERN	
PKS 200-3	200	0,001	0,001	± 0,003	0,001	1,1	A		963-127	
PKS 360-3	360	0,001	0,002	± 0,005	0,001	1,1	A		963-127	
PKS 2000-2	2000	0,01	0,01	± 0,03	0,01	1,5	B		963-127	
PKS 3600-2	3600	0,01	0,02	± 0,05	0,01	1,5	B		963-127	
PKS 10K0.1	10000	0,1	0,1	± 0,3	0,1	1,7	C		963-128	

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.

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

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. High tolerance against electromagnetic disturbance.

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.

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

Network interface: For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter.

GLP/ISO log: The balance displays the weight, date and time, regardless of a printer connection.

GLP/ISO log: With weight, date and time. Only with KERN printers, see "Accessories"

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

Recipe level A: Separate memory for the weight of the tare container and the recipe ingredients (net total).

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. Additional convenient functions, such as barcode and back calculation functions.

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

Totalising level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display. Additional convenient functions, such as barcode and back calculation.

Percentage determination: Determining the deviation in % from the target value (100 %).

Weighing units: Can be switched to e.g. non-metric units at the touch of a key. See balance model. Please refer to KERN's website for more details.

Weighing with tolerance range: Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning.

Vibration-free weighing: (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 the glossary.

ATEX explosion protection: Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.

Stainless steel: The balance is protected against corrosion.

Suspended weighing: Load support with hook on the underside of the balance.

Battery operation: Ready for battery operation. The battery type is specified for each device.

Rechargeable battery pack: Rechargeable set.

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

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

Strain gauges: Electrical resistor on an elastic deforming body.

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

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

Single cell technology: Advanced version of the force compensation principle with the highest level of precision.

Verification possible: The time required for verification is specified in the pictogram.

DAkkS calibration possible: 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.

Warranty: The warranty period is shown in the pictogram.

Precision is our business

To ensure the high precision of your balance KERN offers you the the appropriate test weight in the international OIML error limit classes E1-M3 from 1 mg - 2000 kg. In combination with a DAkkS calibration certificate the best pre-requisite for proper balance calibration.

The KERN DAkkS calibration laboratory today is one of the most modern and best-equipped DAkkS calibration laboratories for balances, test weights and force-measurement in Europe.

Thanks to the high level of automation, we can carry out DAkkS calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Range of services:

- DAkkS calibration of balances with a maximum load of up to 6 t
- DAkkS calibration of weights in the range of 1 mg – 500 kg
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAkkS calibration certificates in the following languages D, GB, F, I, E, NL

Your KERN specialist dealer: