

Precision balance KERN PCD



High-resolution precision balance with removable display for maximum flexibility

Features

- **Laboratory balance with separate platform:** Ideal when working in glove bag or fume cupboard. Particularly practical for weighing toxic, volatile or contaminated substances
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Freely programmable weighing unit**, e.g. display direct in special units such as length of thread g/m, paper weight g/m², or similar
- **Level indicator and levelling feet** to level the balance precisely, fitted as standard, to give the most accurate weighing results
- **Draught shield** standard for models with weighing plate size **A**, weighing space WxDxH 146x146x70 mm

Technical data

- Backlit LCD display, digit height 21 mm
- Weighing plate dimensions
 - A** Ø 105 mm
 - B** WxD 160x160 mm, see enlarged picture
- Weighing plate material
 - A** Plastic, with conductive lacquer
 - B** Stainless steel
- Optional battery operation, 9 V Block, not included, operating time up to 12 h. AUTO-OFF function to preserve the battery
- Overall dimensions WxDxH 165x245x142 mm
- Cable length of display device approx. 0,88 m
- Net weight approx. 1,1 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- **Protective working cover** over the display device, KERN PCD-A05
- **1 Stand** to elevate display device, height of stand approx. 250 mm, KERN PCD-A03
- **2 Foot switch**, ideal when 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, see page 158, KERN YKF-01
- **Rechargeable battery pack internal**, operating time up to 48 h, charging time approx. 8 h. AUTO-OFF function to preserve the battery, can be switched off, KERN PCD-A04
- **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 printers** see page 157 ff.

STANDARD



OPTION



Model	Weighing range [Max]	Readout [d]	Reproducibility	Linearity	Min. piece weight [Counting]	Weighing plate	Option	
							DAKkS KERN	DAKkS Calibr. Certificate
KERN PCD 250-3	250 g	0,001 g	0,002 g	± 0,005 g	0,002 g/piece	A	963-127	
KERN PCD 2500-2	2500 g	0,01 g	0,02 g	± 0,05 g	0,02 g/piece	B	963-127	
KERN PCD 10K0.1	10000 g	0,1 g	0,1 g	± 0,3 g	0,2 g/piece	B	963-128	

KERN Pictograms

 Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven).	 Recipe level A: Separate memory for the weight of the tare container and the recipe ingredients (net total).	 Suspended weighing: Load support with hook on the underside of the balance.
 Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required.	 Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display.	 Battery operation: Ready for battery operation. The battery type is specified for each device.
 Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 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.	 Rechargeable battery pack: Rechargeable set.
 Data interface RS-232: To connect the balance to a printer, PC or network.	 Totalising level A: The weights of similar items can be added together and the total can be printed out.	 Mains adapter: 230V/50Hz in standard version for EU. On request GB, AUS or USA version available.
 RS-485 data interface: To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.	 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.	 Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.
 USB data interface: To connect the balance to a printer, PC or other peripherals.	 Strain gauges: Electrical resistor on an elastic deforming body.	 Tuning fork principle: A resonating body is electromagnetically excited, causing it to oscillate.
 Bluetooth data interface: To transfer data from the balance to a printer, PC or other peripherals.	 Percentage determination: Determining the deviation in % from the target value (100 %).	 Electromagnetic force compensation: Coil inside a permanent magnet. For the most accurate weighings.
 WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals.	 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.	 Single cell technology: Advanced version of the force compensation principle with the highest level of precision.
 Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.	 Weighing with tolerance range: Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning.	 Verification possible: The time required for verification is specified in the pictogram.
 Interface for second balance: For direct connection of a second balance.	 Vibration-free weighing: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value.	 DAkkS calibration possible: The time required for DAkkS calibration is shown in days in the pictogram.
 Network interface: For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter.	 Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram. For details see the glossary.	 Package shipment: The time required for internal shipping preparations is shown in days in the pictogram.
 GLP/ISO log: The balance displays the weight, date and time, regardless of a printer connection.	 ATEX explosion protection: Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.	 Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram.
 GLP/ISO log: With weight, date and time. Only with KERN printers, see "Accessories"	 Stainless steel: The balance is protected against corrosion.	 Warranty: The warranty period is shown in the pictogram.
 Piece counting: Reference quantities selectable. Display can be switched from piece to weight.		

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.

Your KERN specialist dealer:

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