

# Precision balance KERN PCD



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

### Features

- **Laboratory balance with separate platform:** Ideal when working in the glove bag or fume cupboard. Particularly practical for weighing toxic, volatile or contaminated substances
- **PRE-TARE function** for manual subtraction of a known container weight, useful for checking fill-levels
- **Freely programmable weighing unit,** e.g. display directly in special units such as length of thread g/m, paper weight g/m<sup>2</sup>, or similar
- **Level indicator and foot screws** to level the balance precisely, fitted as standard, to give the most accurate weighing results

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

### Technical data

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

### Accessories

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

### STANDARD

































only with printer

### OPTION



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

# KERN Pictograms

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

## Precision is our business

To ensure the high level of precision of your balance, KERN offers the appropriate test weight package for your balance. This consists of the test weight, box and DKD calibration certificate, as proof of its accuracy. The best way to ensure proper balance calibration.

In the extensive KERN test weight range, you will find test weights in the international OIML error limit classes: E 1, E 2, F 1, F 2, M 1, M 2, and M 3 with weights from 1 mg to 2000 kg.

The KERN DKD calibration laboratory for electronic balances and weights has been accredited by DKD since 1994 and today is one of the most modern and best-equipped DKD calibration laboratories for balances, test weights and force-measurement in Europe. (DKD = German Calibration Service ~ UKAS)

## Your KERN specialist dealer:

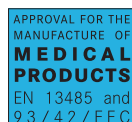
Thanks to the high level of automation, we can carry out DKD calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

### Range of services:

- DKD calibration of balances with a maximum load of up to 6000 kg
- DKD calibration of weights in the range of 1 mg – 500 kg
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DKD calibration certificates in the following languages  
D, GB, F, I, E, NL, PL

Do you have questions about your scale, the corresponding test weight or the calibration service? Your KERN specialist dealer will be pleased to assist you.

**KERN – Professional measuring.** Measuring technology and testing services from a single source



German Excellence Group  
Member