Precision balance KERN EMB

Entry level laboratory balance with tremendous weighing performance

Features

- **Simple and convenient 2-key operation**, making them ideal for use in schools and universities
- **Taref unction** facilitates formulation work
- **Particularly flat design**
- **Secure and non-slip positioning** with rubber feet
- **Ready for use:** Batteries included. AUTO-OFF function to preserve the batteries, can be switched off

Technical data

- Large LCD display, digit height 15 mm
- Dimensions of weighing plate (plastic)
  A 82 mm
  B 105 mm
  C 150 mm, see larger picture
- Dimensions housing WxDxH 170x240x39 mm
- Net weight approx. 0,5 kg
- Permissible ambient temperature 5 °C / 35 °C

Accessories

- 1 **Ring-shaped draft shield**, plastic, only for models with weighing plate sizes A, KERN EMB-A01
- 2 **Stainless steel-weighing plate**, only for models with weighing plate sizes B, KERN EMB-A02
- **Mains adapter external** not included, can be reordered, KERN 440-902

STANDARD

CAL EXT | UNDER | BATT | DMS | 1 DAY | 2 YEARS WARRANTY

OPTION

230 V | DKD +3 DAYS

Model KERN	Weighing range [Max] g	Readout [d] g	Repro-ducibility g	Linearity g	Weighing plate		Option DKD Calibr. Certificate DKD KERN	
EMB 100-3	100	0,001	0,001	± 0,003	A		963-127	
EMB 200-3	200	0,001	0,001	± 0,003	A		963-127	
EMB 200-2	200	0,01	0,01	± 0,02	B		963-127	
EMB 600-2	600	0,01	0,01	± 0,03	B		963-127	
EMB 1000-2	1000	0,01	0,01	± 0,03	C		963-127	
EMB 2000-2	2000	0,01	0,01	± 0,03	C		963-127	
EMB 500-1	500	0,1	0,1	± 0,2	C		963-127	
EMB 1200-1	1200	0,1	0,1	± 0,3	C		963-127	
EMB 3000-1	3000	0,1	0,1	± 0,3	C		963-127	
EMB 6000-1	6000	0,1	0,1	± 0,3	C		963-128	
EMB 2200-0	2200	1	1	± 2	C		963-127	
EMB 5.2K1	5200	1	1	± 3	C		963-128	
EMB 5.2K5	5200	5	5	± 10	C		963-128	

KERN Pictograms

CAL INT — **Internal adjusting (CAL):** Quick setting of the balance's accuracy with internal adjusting weight (motordriven).

CAL EXT — **Adjusting program (CAL):** For quick setting of the balance's accuracy. External adjusting weight required.

MEMORY — **Memory:** Balance contains memories, e.g. for item data, weighing data, tare weights etc. PLU

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

SWITCH — **Control outputs (optocoupler, digital I/O)** to connect relays, signal lamps, valves, etc.

DUAL — **Interface for second balance:** for direct connection of a second balance

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

GLP PROTOCOL — **GLP/ISO record keeping:** of weighing data with date, time and identification-no. Only with printers from KERN.

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

RECIPE — **Net-total weighing:** weight of tare cup and weight of components memorized in two separate stores.

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

UNIT — **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.

TOL — **Weighing with tolerance range:** Upper and lower limiting can be programmed individually, e.g. dosing/sorting and portioning.

MOVE — **Vibration-free weighing:** (Animal weighing program) Vibrations are filtered out so that a stable weight is obtained.

IP — **Spray and dust protection IPxx:** The type of protection is shown by the pictogram. For details see the glossary.

INOX — **Stainless steel:** the balance is protected against corrosion.

UNDER — **Suspended weighing:** load support with hook on the underside of the balance.

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

ACCU — **Rechargeable battery pack:** rechargeable set.

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

230 V — **Power supply:** integrated in balance. 230V/50Hz in Germany. More standards e. g. GB, AUS, USA on request.

DMS — **Strain gauges:** Electrical resistor on an elastic deforming body.

T-FORK — **Tuning fork principle:** A resonating body is electromagnetically excited, causing it to oscillate.

FORCE — **Electromagnetic force compensation:** Coil in a permanent magnet. For the most accurate weighings.

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

+3 DAYS — **Verification possible:** The time required for verification is specified in the pictogram.

+3 DAYS — **DKD calibration possible:** The time required for DKD calibration is shown in days in the pictogram.

DAYS — **Package shipment:** The time required to manufacture the product internally is shown in days in the pictogram.

DAYS — **Pallet shipment:** The time required to manufacture the product internally is shown in days in the pictogram.

3 YEARS WARRANTY — **Warranty:** 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: E1, E2, F1, F2, M1, M2, and M3 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)

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 corresponsing test weight or the calibration service ? Your KERN specialist dealer will be pleased to assist you.

Your KERN specialist dealer:

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

Quality Management DQS ISO 9001:2008

DKD-K-11801

APPROVAL FOR THE MANUFACTURE OF MEDICAL PRODUCTS EN 13485 and 93/42/EEC

APPROVAL FOR MANUFACTURER'S INITIAL CALIBRATION 2009/23/EEC

German Excellence Group Member

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