

School balance KERN EMB



Entry level laboratory balance with tremendous weighing performance

Features

- Simple and convenient 2-key operation
- Tare function facilitates formulation work
- Particularly flat design
- Ready for use: Batteries included
- **1** Ring-shaped draught shield standard, only for models with weighing plate size **A**, weighing space $\phi \times H$ 96×35 mm
- Hook for underfloor weighing standard
- **2** Also available as KERN EMB 500-1BE Black Edition
- Note: With the optional auxiliary set for density determination KERN YDB-04 also well suited for school and teaching operation.

Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface
 - A** ϕ 82 mm
 - B** ϕ 105 mm
 - C** ϕ 150 mm, see larger picture
- Weighing plate material
 - A** plastic, with conductive lacquer
 - B, C** plastic
- Net weight approx. 0,85 kg
- Batteries included, 9 V block, respectively 2×1.5 V AA
- Permissible ambient temperature 5 °C/35 °C

Accessories

- Stainless steel weighing plate, only for models with weighing plate size **B**, KERN EMB-A02
- External universal mains adapter, with universal input and optional input socket adapters for EU, GB, USA, KERN YKA-03N
- **3** Ancillary kit for density determination of liquids and solids with density > 1. Scope of supplies: Bridge for holding the beaker (ϕ 102 mm), hook (H 139 mm), suitable for models with weighing plate size **A**, KERN YDB-04

STANDARD



OPTION



Model	Weighing capacity [Max] g	Readability [d] g	Reproducibility g	Linearity g	Housing dimensions W×D×H mm	Weighing plate	Option	
							DAkkS Calibr. Certificate	DAkkS KERN
EMB 100-3	100	0,001	0,001	± 0,005	170×244×54	A	963-127	
EMB 200-3	200	0,001	0,001	± 0,005	170×244×54	A	963-127	
EMB 200-2	200	0,01	0,01	± 0,02	170×244×39	B	963-127	
EMB 600-2	600	0,01	0,01	± 0,03	170×244×39	B	963-127	
EMB 1000-2	1000	0,01	0,01	± 0,05	170×244×54	C	963-127	
EMB 2000-2	2000	0,01	0,01	± 0,05	170×244×54	C	963-127	
EMB 500-1	500	0,1	0,1	± 0,2	170×244×39	C	963-127	
EMB 500-1BE	500	0,1	0,1	± 0,2	170×244×39	C	963-127	
EMB 1200-1	1200	0,1	0,1	± 0,3	170×244×39	C	963-127	
EMB 3000-1	3000	0,1	0,1	± 0,3	170×244×39	C	963-127	
EMB 6000-1	6000	0,1	0,1	± 0,3	170×244×39	C	963-128	
EMB 2200-0	2200	1	1	± 2	170×244×39	C	963-127	
EMB 5.2K1	5200	1	1	± 3	170×244×39	C	963-128	
EMB 5.2K5	5200	5	5	± 10	170×244×39	C	963-128	

Pictograms

<p>Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)</p>	<p>KERN Communication Protocol (KCP): 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</p>	<p>Suspended weighing: Load support with hook on the underside of the balance</p>
<p>Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required</p>	<p>GLP/ISO log: The balance displays serial number, user ID, weight, date and time, regardless of a printer connection</p>	<p>Battery operation: Ready for battery operation. The battery type is specified for each device</p>
<p>Easy Touch: Suitable for the connection, data transmission and control through PC or tablet.</p>	<p>GLP/ISO log: With weight, date and time. Only with KERN printers.</p>	<p>Rechargeable battery pack: Rechargeable set</p>
<p>Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.</p>	<p>Piece counting: Reference quantities selectable. Display can be switched from piece to weight</p>	<p>Universal plug-in power supply: with universal input and optional input socket adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS</p>
<p>Alibi memory: Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.</p>	<p>Recipe level A: The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out</p>	<p>Plug-in power supply: 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available</p>
<p>Data interface RS-232: To connect the balance to a printer, PC or network</p>	<p>Recipe level B: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display</p>	<p>Integrated power supply unit: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request</p>
<p>RS-485 data interface: To connect the balance to a printer, PC or other peripherals. Suitable for datatransfer over large distances. Network in bus topology is possible</p>	<p>Totalising level A: The weights of similar items can be added together and the total can be printed out</p>	<p>Weighing principle: Strain gauges: Electrical resistor on an elastic deforming body</p>
<p>USB data interface: To connect the balance to a printer, PC or other peripherals</p>	<p>Percentage determination: Determining the deviation in % from the target value (100 %)</p>	<p>Weighing principle: Tuning fork: A resonating body is electromagnetically excited, causing it to oscillate</p>
<p>Bluetooth* data interface: To transfer data from the balance to a printer, PC or other peripherals</p>	<p>Weighing units: Can be switched to e.g. nonmetric units. See balance model. Please refer to KERN's website for more details</p>	<p>Weighing principle: Electromagnetic force compensation: Coil inside a permanent magnet. For the most accurate weighings</p>
<p>WiFi data interface: To transfer data from the balance to a printer, PC or other peripherals</p>	<p>Weighing with tolerance range: (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</p>	<p>Weighing principle: Single cell technology: Advanced version of the force compensation principle with the highest level of precision</p>
<p>Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.</p>	<p>Hold function: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value</p>	<p>Verification possible: The time required for verification is specified in the pictogram</p>
<p>Analogue interface: to connect a suitable peripheral device for analogue processing of the measurements</p>	<p>Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram.</p>	<p>DAKkS calibration possible (DKD): The time required for DAKkS calibration is shown in days in the pictogram</p>
<p>Interface for second balance: For direct connection of a second balance</p>	<p>Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram</p>	<p>Factory calibration (ISO): The time required for Factory calibration is shown in days in the pictogram</p>
<p>Network interface: For connecting the scale to an Ethernet network</p>	<p>Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram</p>	<p>Package shipment: The time required for internal shipping preparations is shown in days in the pictogram</p>

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KERN – 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 - 2500 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 50 t
- DAKkS calibration of weights in the range of 1 mg - 2500 kg
- Volume determination and measuring of magnetic susceptibility (magnetic characteristics) for test weights
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAKkS calibration certificates in the following languages DE, EN, FR, IT, ES, NL, PL
- Conformity evaluation and reverification of balances and test weights

Your KERN specialist dealer: