

# School 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
- **Tare function** facilitates formulation work
- **Particularly flat design**
- **Ready for use:** Batteries included
- **Ring-shaped draught shield** standard, only for models with weighing plate size **A**, weighing space  $\varnothing \times H$  96x35 mm
- **Hook for underfloor weighing** standard

- **Anniversary Gnome edition EMB 500-1GN**, including gnome booklet

### Technical data

- Large LCD display, digit height 15 mm
- Weighing plate dimensions, stainless steel,  $\varnothing$  **A** 82 mm, **B** 105 mm, **C** 150 mm, see enlarged picture
- Weighing plate material **A** Plastic, with conductive lacquer **B**, **C** Plastic

- Net weight approx. 0,75 kg
- Permissible ambient temperature 5 °C / 35 °C

### Accessories

- **Ring-shaped draught shield**, plastic, only for models with weighing plate size **A**, KERN EMB-A01
- **Stainless steel weighing plate**, only for models with weighing plate size **B**, KERN EMB-B02
- **Stack frame** for space-saving storage of precision balances from the KERN EMB range, scope of delivery 5 pieces, for models with housing dimensions WxDxH 170x240x39 mm: KERN EMB-A07 170x240x54 mm: KERN EMB-A09
- **External universal mains adapter**, with universal input and optional input socket adapters for EU, GB, USA, CH, not included, can be retrofitted, KERN YKA-03

#### STANDARD





#### OPTION



Model	Weighing range [Max] g	Readout [d] g	Reproducibility g	Linearity g	Dimensions housing WxDxH mm	Weighing plate	Option DAkkS Calibr. Certificate	
							DKD KERN	
<b>KERN</b>								
<b>EMB 100-3</b>	100	0,001	0,001	± 0,005	170x240x54	<b>A</b>	963-127	
<b>EMB 200-3</b>	200	0,001	0,001	± 0,005	170x240x54	<b>A</b>	963-127	
<b>EMB 200-2</b>	200	0,01	0,01	± 0,02	170x240x39	<b>B</b>	963-127	
<b>EMB 600-2</b>	600	0,01	0,01	± 0,03	170x240x39	<b>B</b>	963-127	
<b>EMB 1000-2</b>	1000	0,01	0,01	± 0,05	170x240x54	<b>C</b>	963-127	
<b>EMB 2000-2</b>	2000	0,01	0,01	± 0,05	170x240x54	<b>C</b>	963-127	
<b>EMB 500-1</b>	500	0,1	0,1	± 0,2	170x240x39	<b>C</b>	963-127	
<b>EMB 500-1GN</b>	500	0,1	0,1	± 0,2	170x240x39	<b>C</b>	963-127	
<b>EMB 1200-1</b>	1200	0,1	0,1	± 0,3	170x240x39	<b>C</b>	963-127	
<b>EMB 3000-1</b>	3000	0,1	0,1	± 0,3	170x240x39	<b>C</b>	963-127	
<b>EMB 6000-1</b>	6000	0,1	0,1	± 0,3	170x240x39	<b>C</b>	963-128	
<b>EMB 2200-0</b>	2200	1	1	± 2	170x240x39	<b>C</b>	963-127	
<b>EMB 5.2K1</b>	5200	1	1	± 3	170x240x39	<b>C</b>	963-128	
<b>EMB 5.2K5</b>	5200	5	5	± 10	170x240x39	<b>C</b>	963-128	

# KERN Pictograms:

 <b>Internal adjusting:</b> Quick setting up of the balance's accuracy with internal adjusting weight (motordriven).	 <b>Piece counting:</b> Reference quantities selectable. Display can be switched from piece to weight.	 <b>Suspended weighing:</b> Load support with hook on the underside of the balance.
 <b>Adjusting program CAL:</b> For quick setting up of the balance's accuracy. External adjusting weight required.	 <b>Recipe level A:</b> Separate memory for the weight of the tare container and the recipe ingredients (net total).	 <b>Battery operation:</b> Ready for battery operation. The battery type is specified for each device.
 <b>Memory:</b> Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 <b>Recipe level B:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display.	 <b>Rechargeable battery pack:</b> Rechargeable set.
 <b>Alibi memory:</b> Electronic archiving of weighing results, complying with the 2009/23/EC standard.	 <b>Recipe level C:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode.	 <b>Universal mains adapter:</b> with universal input and optional input socket adapters for A) EU, GB B) EU, GB, CH, USA C) EU, GB, CH, USA, AUS
 <b>Data interface RS-232:</b> To connect the balance to a printer, PC or network.	 <b>Totalising level A:</b> The weights of similar items can be added together and the total can be printed out.	 <b>Mains adapter:</b> 230V/50Hz in standard version for EU. On request GB, USA or AUS version available.
 <b>RS-485 data interface:</b> To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.	 <b>Totalising level C:</b> Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode recognition.	 <b>Power supply:</b> Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request.
 <b>USB data interface:</b> To connect the balance to a printer, PC or other peripherals.	 <b>Weighing principle: Strain gauge</b> Electrical resistor on an elastic deforming body.	 <b>Weighing principle: Tuning fork</b> A resonating body is electromagnetically excited, causing it to oscillate.
 <b>Bluetooth* data interface:</b> To transfer data from the balance to a printer, PC or other peripherals.	 <b>Percentage determination:</b> Determining the deviation in % from the target value (100 %).	 <b>Weighing principle: Electromagnetic force compensation</b> Coil inside a permanent magnet. For the most accurate weighings.
 <b>WLAN data interface:</b> To transfer data from the balance to a printer, PC or other peripherals.	 <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 principle: Single cell technology</b> Advanced version of the force compensation principle with the highest level of precision.
 <b>Control outputs (optocoupler, digital I/O):</b> To connect relays, signal lamps, valves, etc.	 <b>Weighing with tolerance range:</b> Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning.	 <b>Verification possible:</b> The time required for verification is specified in the pictogram.
 <b>Interface for second balance:</b> For direct connection of a second balance.	 <b>Hold function:</b> (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value.	 <b>DAKkS calibration possible (DKD):</b> The time required for DAKkS calibration is shown in days in the pictogram.
 <b>Network interface:</b> For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter.	 <b>Protection against dust and water splashes IPxx:</b> The type of protection is shown in the pictogram.	 <b>Package shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram.
 <b>Wireless data transfer:</b> between the weighing unit and the evaluation unit using an integrated radio module.	 <b>ATEX explosion protection:</b> Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.	 <b>Pallet shipment:</b> The time required for internal shipping preparations is shown in days in the pictogram.
 <b>GLP/ISO log:</b> The balance displays the weight, date and time, regardless of a printer connection.	 <b>Stainless steel:</b> The balance is protected against corrosion.	 <b>Warranty:</b> The warranty period is shown in the pictogram.
 <b>GLP/ISO log:</b> With weight, date and time. Only with KERN printers.		

## 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 - 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 50 t
- DAKkS calibration of weights in the range of 1 mg – 2500 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, PL

## Your KERN specialist dealer: