

# 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
- II Ring-shaped draught shield standard, only for models with weighing plate size II, weighing space Ø×H 96×35 mm
- Hook for underfloor weighing standard
- Note: Anniversary Gnome edition KERN EMB 500-1GN, including gnome booklet, for details see internet, only while stocks last

## **Technical data**

- Large LCD display, digit height 15 mm
- Dimensions weighing surface, plastic, with conductive lacquer
  ▲ Ø 82 mm
- Ø 82 mm ■ Ø 105 mm
- Ø 150 mm
- Weighing plate material
- plastic, with conductive lacquerplastic
- Net weight approx. 0,75 kg
- Permissible ambient temperature 5 °C/35 °C

### Accessories

- Stainless steel weighing plate, only for models with weighing plate size I, KERN EMB-A02
- Stack frame for space-saving storage of precision balances from the KERN EMB range, scope of delivery 5 pieces, for models with housing dimensions W×D×H 170×240×39 mm: KERN EMB-A07 170×240×54 mm: KERN EMB-A09
- External universal mains adapter, with universal input and optional input socket adapters for EU, GB, USA, YKA-03

STANDARD	OPTION					
CAL EXT	UNDER	BATT	DMS	1 DAY	B DAkkS MULTI +3 DAYS	

Model	Weighing range	Readout	Reproducibility	Linearity	Dimensions	Weighing plate	Option	
					housing		DAkkS Calibr. Ce	rtificate
	[Max]	[d]			W×D×H		DKD	
KERN	g	g	g	g	mm		KERN	
EMB 100-3	100	0,001	0,001	± 0,005	170×240×54	A	963-127	
EMB 200-3	200	0,001	0,001	± 0,005	170×240×54	A	963-127	
EMB 200-2	200	0,01	0,01	± 0,02	170×240×39	В	963-127	
EMB 600-2	600	0,01	0,01	± 0,03	170×240×39	В	963-127	
EMB 1000-2	1000	0,01	0,01	± 0,05	170×240×54	C	963-127	
EMB 2000-2	2000	0,01	0,01	± 0,05	170×240×54	C	963-127	
EMB 500-1	500	0,1	0,1	± 0,2	170×240×39	C	963-127	
EMB 500-1BE *	500	0,1	0,1	± 0,2	170×240×39	C	963-127	
EMB 1200-1	1200	0,1	0,1	± 0,3	170×240×39	C	963-127	
EMB 3000-1	3000	0,1	0,1	± 0,3	170×240×39	C	963-127	
EMB 6000-1	6000	0,1	0,1	± 0,3	170×240×39	C	963-128	
EMB 2200-0	2200	1	1	± 2	170×240×39	C	963-127	
EMB 5.2K1	5200	1	1	± 3	170×240×39	C	963-128	
EMB 5.2K5	5200	5	5	± 10	170×240×39	C	963-128	

\* housing colour black, see KERN EMB 500-1GN

6SfSeZWAQ7? 4QH#



# **KERN Pictograms**



Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)



Adjusting program CAL: For quick setting up of the balance's accuracy. External

adjusting weight required



Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.



Alibi memory: Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.



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



RS-485 data interface: To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible



USB data interface: To connect the balance to a printer, PC or other peripherals



peripherals

Bluetooth\* data interface: To transfer data from the balance to a printer, PC or other



WLAN data interface: To transfer data from the balance to a printer, PC or other



peripherals



Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.



Interface for second balance: For direct connection of a second balance

scale to an Ethernet network

an integrated radio module



Network interface: For connecting the



Wireless data transfer: between the

weighing unit and the evaluation unit using



((**†**)))

KERN Communication Protocol (KCP): It is a standardized interface command set for PROTOCOL 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

## 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 forcemeasurement 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, GB, FR, IT, ES, NL, PL · Conformity evaluation and reverification of balances and test weights

GLP/ISO log: The balance displays serial number, user ID, weight, date and time, GLP regardless of a printer connection INTERN

GLP/ISO log: With weight, date and time. GLP Only with KERN printers PRINTER



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



Recipe level A: The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out

Recipe level B: Internal memory for complete recipes with name and target value RECIPE of the recipe ingredients. User guidance through display



Recipe level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, multiplier function, adjust-



ment of recipe when dosages are exceeded or barcode recognition Totalising level A: The weights of similar items can be added together and the total can be printed out

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



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



Weighing with tolerance range: (Check-weighing) 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

M-Hold function: (Animal weighing program) When the weighing conditions are unstable, a MOVE stable weight is calculated as an average value



Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram.

Stainless steel: The balance is protected against corrosion INOX



Suspended weighing: Load support with hook on the underside of the balance

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



BATT

Rechargeable battery pack:

Rechargeable set



and optional input socket adapters for A) EU, GB B) EU, GB, CH, USA C) EU, GB, CH, USA, AUS

230 V

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



Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request

	۱ r
DMS	

Neighing principle: Strain gauges Electrical esistor on an elastic deforming body



Weighing principle: Tuning fork A resonating body is electromagnetically excited, causing it to oscillate



Weighing principle: Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings



Weighing principle: Single cell technology Advanced version of the force compensation principle with the highest level of precision

verification is specified in the pictogram

Μ +3 DAYS

DAkkS

DAkkS calibration possible (DKD): The time required for DAkkS calibration is shown in +3 DAYS days in the pictogram

Verification possible: The time required for



Package shipment: The time required for internal shipping preparations is shown in days in the pictogram

2 DAYS in the pictogram

Pallet shipment: The time required for internal shipping preparations is shown in days

## Your KERN specialist dealer:

