

School Balance KERN EMB



SCHOOL



A



A



B



1



2

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
- **A** Ring-shaped draught shield standard, only for models with weighing plate size **A**, weighing space $\varnothing \times H$ 96×35 mm
- Hook for underfloor weighing standard
- **1** 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, see *Accessories*

Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface
 - A** \varnothing 82 mm, plastic, with conductive lacquer
 - B** \varnothing 105 mm, plastic
 - C** \varnothing 150 mm, plastic, see larger picture
- Overall dimensions W×D×H
 - A** 170×244×54 mm
 - B, C** 170×244×39 mm
- Batteries included, 9 V block, respectively 2×1.5 V AA
- Net weight approx. 0,85 kg
- 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, CH, GB, US, KERN YKA-03N
- **2** Ancillary kit for density determination of liquids and solids with density > 1. Scope of supplies: Bridge for holding the beaker (\varnothing 102 mm), hook (H 139 mm), KERN YDB-04














STANDARD



























OPTION



Model	Weighing capacity	Readability	Reproducibility	Linearity	Weighing plate	Options
	[Max]	[d]				DAKKS Calibr. Certificate
KERN	g	g	g	g		DAKKS KERN
EMB 100-3	100	0,001	0,001 g	± 0,005	A	963-127
EMB 200-3	200	0,001	0,001 g	± 0,005	A	963-127
EMB 200-2	200	0,01	0,01 g	± 0,02	B	963-127
EMB 600-2	600	0,01	0,01 g	± 0,03	B	963-127
EMB 1000-2	1000	0,01	0,01 g	± 0,05	C	963-127
EMB 2000-2	2000	0,01	0,01 g	± 0,05	C	963-127
EMB 500-1	500	0,1	0,1 g	± 0,2	C	963-127
EMB 500-1BE	500	0,1	0,1 g	± 0,2	C	963-127
EMB 1200-1	1200	0,1	0,1 g	± 0,3	C	963-127
EMB 3000-1	3000	0,1	0,1 g	± 0,3	C	963-127
EMB 6000-1	6000	0,1	0,1 g	± 0,3	C	963-128
EMB 2200-0	2200	1	1 g	± 2	C	963-127
EMB 5.2K1	5200	1	1 g	± 3	C	963-128
EMB 5.2K5	5200	5	5 g	± 10	C	963-128

	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
	EasyTouch Suitable for the connection, data transmission and control through PC or tablet
	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.
	KERN Universal Port (KUP) allows the connection of external KUP interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WIFI, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort
	RS-232 Data interface 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
	Bluetooth* Data interface To transfer data from the balance to a printer, PC or other peripherals
	WIFI 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.
	Analogue interface to connect a suitable peripheral device for analogue processing of the measurements

	Interface for second balance For direct connection of a second balance
	Network interface For connecting the scale to an Ethernet network
	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
	GLP/ISO log intern The balance displays weight, date and time, independent of a printer connection
	GLP/ISO log Printer With weight, date and time. Only with KERN printers.
	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 of the recipe ingredients. User guidance through display
	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 %)
	Weighing units Can be switched to e.g. nonmetric units. See balance model. Please refer to KERN's website for more details
	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

	Hold function (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value
	Protection against dust and water splashes IPxx The type of protection is shown in the pictogram
	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
	Rechargeable battery pack Rechargeable set
	Universal plug-in power supply with universal input and optional input socket adapters for A) EU, CH, GB B) EU, CH, GB, US C) EU, CH, GB, US, AUS
	Plug-in power supply 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available
	Integrated power supply unit Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request
	Weighing principle Strain gauges Electrical resistor 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

	Conformity Assessment The time required for conformity assessment is specified in the pictogram
	DAkkS calibration possible (DKD) The time required for DAkkS calibration is shown in days in the pictogram
	Factory calibration (ISO) The time required for Factory calibration is shown in days in the pictogram
	Package shipment The time required for internal shipping preparations is shown in days in the pictogram
	Pallet shipment The time required for internal shipping preparations is shown in days in the pictogram