KERN BALANCES & TEST SERVICES CATALOGUE 2021

School balance KERN EMB



Entry level laboratory balance with tremendous weighing performance

OPTION

MULTI

DAkks

+3 DAY

Features

STANDARD

CAL EXT

Ð

UNIT

÷

UNDER

- 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 **I**, weighing space Ø×H 96×35 mm
- Hook for underfloor weighing standard
- 2 Note: 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.

BATT

DMS

1 DAY

Technical data

- Large LCD display, digit height 15 mm
- Dimensions weighing surface
- A Ø 82 mm
- B Ø 105 mm
- ☑ Ø 150 mm, see larger picture
- · Weighing plate material Image: 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
- Ancillary kit for density determination of liquids and solids with density > 1. Scope of supplies: Bridge for holding the beaker (Ø 102 mm), hook (H 139 mm), suitable for models with weighing plate size A, KERN YDB-04

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











KERN BALANCES & TEST SERVICES CATALOGUE 2021



Pictograms



Internal adjusting: Quick setting up of the balance's accuracy with



CAL EXT

Adjusting program CAL:

For quick setting up of the balance's accuracy. External adjusting weight required

internal adjusting weight (motordriven)



Easy Touch: Suitable for the connection, data transmission and control through PC, tablet or smartphone.



ALIBI

Memory:

Balance memory capacity, e.g. for article data,

weighing data, tare weights, PLU etc.



Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard

Data interface RS-232:

• 6550.• To connect the balance to a printer, PC or RS 232 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:

balance calibration.

Range of services:

characteristics) for test weights

· Calibration of force-measuring devices

ment in Europe

For connecting the scale to an Ethernet network

KERN – Precision is our business

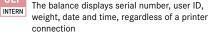


KCP

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

GLP/ISO log: GLP



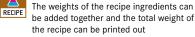
GLP/ISO log:

With weight, date and time. Only with KERN PRINTER printers

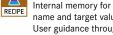
Piece counting:

Reference quantities selectable. Display can PCS be switched from piece to weight

Recipe level A:



Recipe level B:



Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display

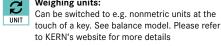
Totalising level A:

- 88' The weights of similar items can be added SUM together and the total can be printed out

Percentage determination:

Determining the deviation in % from the target ERCENT value (100 %)

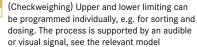
Weighing units:



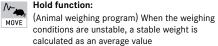
to KERN's website for more details



Weighing with tolerance range:



Hold function:





Protection against dust and water splashes IPxx:

The type of protection is shown in the pictogram

*The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by KERN & SOHN GmbH is under license. Other trademarks and trade names are those of their respective owners

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

The KERN DAkkS calibration laboratory today is one of the most modern and best-

balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Thanks to the high level of automation, we can carry out DAkkS calibration of

· Volume determination and measuring of magnetic susceptibility (magnetic

· Conformity evaluation and reverification of balances and test weights

· Database supported management of checking equipment and reminder service

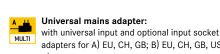
· DAkkS calibration certificates in the following languages DE, EN, FR, IT, ES, NL, PL

· 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

equipped DAkkS calibration laboratories for balances, test weights and force-measure-

Your KERN specialist dealer:

Impex Produkter AS Gamle Drammensvei 107 1363 Høvik www.impex.no info@impex.no Tlf.: 22 32 77 20



Suspended weighing:

Battery operation:

Rechargeable set

is specified for each device

Rechargeable battery pack:

the balance

adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS Mains adapter:

230V/50Hz in standard version for EU, CH.

On request GB, USA or AUS version available

Load support with hook on the underside of

Ready for battery operation. The battery type



Ę.

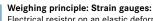
UNDER

BATT

ACCU

Power supply:

-6-Integrated in balance. 230V/50Hz standard EU. 230 V More standards e.g. GB, USA or AUS on request



Electrical resistor on an elastic deforming body DMS



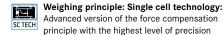
Weighing principle: Tuning fork:

A resonating body is electromagnetically excited, causing it to oscillate

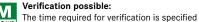


Weighing principle: Electromagnetic force compensation:

Coil inside a permanent magnet. For the most accurate weighings



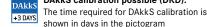
Advanced version of the force compensation principle with the highest level of precision



М +3 DAYS

in the pictogram

DAkkS calibration possible (DKD):



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

preparations is shown in days in the pictogram

