

PRODUCT BROCHURE

KERN EMB 100-3

Date: 28.04.2025

ENGLISH



Entry level laboratory balance with tremendous weighing performance

CONTACT

KERN & SOHN GmbH
Ziegelei 1
72336 Balingen
Germany

Phone : +49 7433 9933-0
Fax : +49 7433 9933-149
Email : info@kern-sohn.com
Web : www.kern-sohn.com



Scan here for more
information

PRODUCT SHOWCASE



DESCRIPTION

- Simple and convenient 2-key operation
- Tare function facilitates formulation work
- Particularly flat design
- Ready for use: Batteries included
- Ring-shaped draught shield standard, weighing space $\varnothing \times H$ 96×35 mm
- Hook for underfloor weighing standard
- Note: With the optional auxiliary set for density determination KERN YDB-04 also well suited for school and teaching operation, see accessories

SPECIFICATIONS

Article codes, product groups & Status information

Model article-code	EMB 100-3
Model-Serie	EMB
Assortment	KERN
Product Type	Laboratory balances
Product group	School balances
Product usage type	Main article
EAN code (Model)	404576 1098060

Customs tariff number 90160010

CE Label yes

Technical data - Primary

Weighing capacity	100 g
Readability	0.001 g
Repeatability	0.001 g
Linearity	± 0.005 g
Weighing surface (d)	82 mm

Recommended adjusting weight 100 g (F1)

Technical data - Construction

Dimension housing (W×D×H)	170×244×54 mm
Material weighing plate	plastic, with conductive lacquer
Casing material	plastic
Weighing surface (d)	82 mm
Dimensions draft shield, inner (Ø×H)	96×35 mm
Dimensions draft shield, outer (Ø×H)	105×35 mm

Technical data - Display

Display height	15 mm
Backlight	no

Technical data - Power supply

Battery	9 V Block
Operating time	16 h

Technical data - Measuring system

Calibration method	Adjusting with external weight
Linearity	± 0.005 g
Readability	0.001 g
Recommended adjusting weight	100 g (F1)
Repeatability	0.001 g
Stabilisation time under laboratory conditions	2.5 s

Tare range	100 g
Warm up time	120 min
Weighing system	Strain gauge
Weighing units	dwt;g;oz;ozt

Technical data - Environmental conditions

Maximum humidity	80 %
Maximum operating temperature	35 °C
Minimum ambient temperature	5 °C

Technical data - Packing & Shipping

Dimensions packaging (W×D×H)	220×290×147 mm
Gross weight	1.4 kg
Net weight	0.85 kg
Shipping method	Parcel service
Packaging component - by weight - paper	18 g
Packaging component - by weight - cardboard	890 g
Packaging component - by weight - plastics	6 g
Packaging component - by weight - styrofoam	111 g
Packaging component - by weight - wood	202 g
Delivery time	1 d

Optional Services

DAkkS Calibration	963-127
-------------------	---------

FUNCTIONS

Standard



Option



ACCESSORIES

Model	Description
440-902	Power supply KERN 440-902
470-902-003	Power supply KERN 470-902-003
KS-A01	Rechargeable battery pack external KS-A01
326-07	Test Weight KERN 326-07
YDB-04	Set for Density Determination KERN YDB-04
315-307-303	Safety Set KERN 315-307-303
YKA-03N	Power Adapter KERN YKA-03N

SERVICES

Model	Description
963-127	DAkkS Calibration KERN 963-127
969-517	Confirmation of the manufacturer's specification (only in combination with DAkkS calibration certificate) 969-517
970-014	Warranty extension KERN (+3 years) 970-014

SPARE PARTS

Model	Description
440-902	Power supply KERN 440-902
470-902-003	Power supply KERN 470-902-003
REMB-8001	Battery compartment cover REMB-8001
REMB-V-8002	REMB-V-8002
REMB-6003	Weighing plate KERN REMB-6003

Model	Description
REMB-2001	Keyboard PCB REMB-2001
REMB-4002	Display overlay REMB-4002
R440-000-13-001	DC socket R440-000-13-001
RPCB-8007	Draft shield KERN RPCB-8007

RELATED ARTICLES DATA

Model name	Weighing capacity	Readability	Repeatability	Linearity	Weighing surface (d)	Recommended adjusting weight
EMB 200-2	200 g	0.01 g	0.01 g	± 0.02 g	105 mm	200 g (M1)
EMB 2200-0	2200 g	1 g	1 g	± 2 g	150 mm	2 kg (M1)
EMB 5.2K5	5200 g	5 g	5 g	± 10 g	150 mm	5 kg (M1)
EMB 1200-1	1200 g	0.1 g	0.1 g	± 0.3 g	150 mm	1 kg (M1)
EMB 5.2K1	5200 g	1 g	1 g	± 3 g	150 mm	5 kg (M1)
EMB 100-3	100 g	0.001 g	0.001 g	± 0.005 g	82 mm	100 g (F1)
EMB 1000-2	1000 g	0.01 g	0.01 g	± 0.05 g	150 mm	1 kg (F1)
EMB 600-2	600 g	0.01 g	0.01 g	± 0.03 g	105 mm	500 g (F2)
EMB 500-1	500 g	0.1 g	0.1 g	± 0.2 g	150 mm	500 g (M1)
EMB 200-3V	200 g	0.001 g	0.002 g	± 0.005 g	82 mm	200 g (F1)
EMB 3000-1	3000 g	0.1 g	0.1 g	± 0.3 g	150 mm	3 kg (M1)
EMB 500-1BE	500 g	0.1 g	0.1 g	± 0.2 g	150 mm	500 g (M1)
EMB 2000-2V	2000 g	0.01 g	0.02 g	± 0.05 g	150 mm	2 kg (F1)
EMB 6000-1	6000 g	0.1 g	0.1 g	± 0.3 g	150 mm	5 kg (M1)
EMB 200-3	200 g	0.001 g	0.001 g	± 0.005 g	82 mm	200 g (F1)
EMB 2000-2	2000 g	0.01 g	0.01 g	± 0.05 g	150 mm	2 kg (F1)