KERN **EMB 100-3**

Entry level laboratory balance with tremendous weighing performance



Date of creation: 23.10.2026

Category	
Brand	KERN
Product category	Laboratory balance
Product group	School balance
Product family	EMB

Measuring System	
Weighing system	Strain gauge
Weighing capacity [Max]	100 g
Readability [d]	0,001 g
Reproducibility	0,001 g
Linearity	± 0,005 g
Resolution	100.000
Tare range	100 g
Adjustment options	Adjusting with external weight
Recommended adjusting weight	100 g (F2)
Possible calibration points	100 g
Stabilization time	2,5 s
Eccentric loading at 1/3 [Max]	0,005 g
Construction type of the scale	Single-range balance
Units	g dwt ozt oz
Maximum creep (15 minutes)	10 mg
Maximum creep (30 minutes)	20 mg
Default unit	g
Warm-up time	120 min

Display	
Display type	LCD
Display backlight	no
Display screen size	58×18 mm
Display digit height	15 mm
Languages of the user interface	Symbol language

Construction	
Dimension housing (W×D×H)	170×244×54 mm
Dimensions completely mounted (W×D×H)	170×240×92 mm
Dimensions ring-shaped draught shield - inner (Ø×H)	96×35 mm
Dimensions ring-shaped draught shield - outer (Ø×H)	105×35 mm
Dimensions weighing surface (Ø)	82 mm
Dimensions weighing surface	82 mm
Material housing	plastic
Material weighing plate	plastic, with conductive lacquer
Material draught shield	plastic
Material display housing	plastic

Functions	
IP protection - complete device	-
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Tare function	manual (multi)
Underfloor weighing	Hook (included in delivery)
Number of keys for operation	2

Power Supply	
Supplied power supply	Battery
Power supply type	Power adapter
Plug-in power supply / adapter for countries - optional	EURO UK US CH
Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	9 V, 300 mA
Power socket for mains adapter	Hollow plug, inside minus, Ø inside 2,1 mm, Ø outside 5,5 mm, long 12 mm

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Battery / accumulator type	Alkali(-Manganese)
Battery	9 V block
Battery connection	Pad + Spring
Battery operating time	16 h
Battery capacity	680 mAh
Battery voltage	18 V
Battery – Number of cells	2
Battery – Individual weight	36,5 g
Battery – Total weight	73 g
Battery – Construction	Individual cells
Battery capacity (Wh)	4,95 Wh
Battery – Lithium content	0 g
Rechargeable battery	KS-A01
Rechargeable battery operating time - backlight off	50 h
Rechargeable battery charging time	10 h
Rechargeable battery optional	Rchrg. battery optional
Battery/Accu connected	not connected, enclosed

Environmental conditions

Ambient temperature [Min]	5 °C
Ambient temperature [Max]	35 °C
Humity of environment [Max]	80 %
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Services (optional)

Article number for DAkkS calibration	963-127
Article number for certificate of conformity	969-517

Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	220×290×147 mm
Shipping method	Parcel service
Net weight approx.	0,85 kg
Gross weight approx.	1,4 kg
Shipping weight	1,9 kg
Shipping volume weight	1,9 kg

Product information

GTIN/EAN number	4045761098060
Trade number	90160010

Warranty Time	24 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

