KERN **EMB 500-1**

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]	500 g
Readability [d]	0,1 g
Reproducibility	0,1 g
Linearity	± 0,2 g
Resolution	5.000
Tare range	500 g
Adjustment options	Adjusting with external weight
Recommended adjusting weight	500 g (M1)
Possible calibration points	500 g
Stabilization time	3 s
Eccentric loading at 1/3 [Max]	0,5 g
Construction type of the scale	Single-range balance
Units	g dwt ozt oz
Maximum creep (15 minutes)	400 mg
Maximum creep (30 minutes)	800 mg
Default unit	g
Warm-up time	10 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)	170×244×39 mm
Dimensions weighing surface (Ø)	150 mm
Dimensions weighing surface	150 mm
Material housing	plastic
Material weighing plate	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 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
Battery / accumulator type	Alkali(-Manganese)
Battery	9 V block
Battery connection	Pad + Spring
Battery operating time	35 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

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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 adjustment at the location of installation	961-247
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)	265×200×65 mm
Shipping method	Parcel service
Net weight approx.	0,55 kg
Gross weight approx.	0,70 kg
Shipping weight	0,7 kg
Shipping volume weight	0,7 kg

Product information

GTIN/EAN number	4045761076525
Trade number	84238129
Warranty Time	24 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

