KERN **EMS 12K1**

Entry level model in the low-cost range with large weighing plate



Date of creation: 23.10.2026

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

Measuring System	
Weighing system	Strain gauge
Weighing capacity [Max]	12000 g
Readability [d]	1 g
Reproducibility	1 g
Linearity	± 3 g
Resolution	12.000
Tare range	12000 g
Adjustment options	Adjusting with external weight
Recommended adjusting weight	12 kg (M1)
Possible calibration points	12 kg
Stabilization time	3 s
Eccentric loading at 1/3 [Max]	5 g
Construction type of the scale	Single-range balance
Units	g dwt ozt oz
Maximum creep (15 minutes)	4 g
Maximum creep (30 minutes)	8 g
Default unit	g
Warm-up time	30 min

Display	
Display type	LCD
Display backlight	no
Display digit height	25 mm
Languages of the user interface	Symbol language

Construction	
Dimension housing (W×D×H)	200×280×65 mm
Dimensions weighing surface (W×D)	175×190 mm
Dimensions weighing surface	175×190 mm
Material housing	plastic
Material weighing plate	plastic
Material display housing	plastic

Functions	
IP protection - complete device	-
Percentage determination	✓
Counting function	✓
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Tare function	manual (multi)
Counting resolution (laboratory conditions)	6.000
Smallest piece weight when piece counting - laboratory conditions	2 g
Reference quantity	5, 10, 20, 25, 50
Recipe/summing level	Rez A (Net total)
Number of keys for operation	5
Smallest piece weight when piece counting - normal conditions	20 g

Power Supply	
Supplied power supply	Power supply & battery function (battery not included)
Power supply type	Power adapter
Plug-in power supply / adapter for countries - included with the delivery	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,

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	Ø outside 5,5 mm, long 12 mm
Battery / accumulator type	Alkali(-Manganese)
Battery	9 V block
Battery connection	9V Bloc
Battery operating time	40 h
Rechargeable battery operating time - backlight off	50 h
Rechargeable battery optional	Rchrg. battery optional

Environmental conditions

Ambient temperature [Min]	5 °C
Ambient temperature [Max]	35 °C
Humity of environment [Min]	40 %
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	961-248
Article number for DAkkS calibration	963-128
Article number for certificate of conformity	969-517

Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	235×310×165 mm
Shipping method	Parcel service
Net weight approx.	1,2 kg
Gross weight approx.	1,8 kg
Shipping weight	2,4 kg
Shipping volume weight	2,4 kg

Product information

GTIN/EAN number	4045761124424
Trade number	84238129
Warranty Time	24 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

