

KERN EMS 12K1

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



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
Material display housing	Plastics
Material housing	plastic
Material weighing plate	plastic
Dimensions weighing surface (W×D)	175×190 mm

Functions

Number of keys for operation	5
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Recipe/summing level	Rez A (Net total)
IP protection - complete device	-

Counting

Smallest piece weight when piece counting - laboratory conditions	2 g
Smallest piece weight when piece counting - normal conditions	20 g
Reference quantity	5, 10, 20, 25, 50
Counting resolution (laboratory conditions)	6.000

Power Supply

Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	9 V, 300 mA
Plug-in power supply type	Power adapter
Supplied power supply	Power supply unit
Plug-in power supply / adapter for countries - included with the delivery	EURO UK US CH
Rechargeable battery optional	Rchrg. battery optional
Battery	9 V block
Battery / accumulator type	Alkali(-Manganese)
Battery connection	9V Bloc
Battery operating time	40 h

Category

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

Measuring System

Construction type of the scale	Single-range balance
Weighing system	Strain gauge
Weighing capacity [Max]	12000 g
Readability [d]	1 g
Resolution	12.000
Linearity	± 3 g
Reproducibility	1 g
Tare range	12000 g
Default unit	g

Units

g
dwt
ozt
oz

Adjustment options	Adjusting with external weight
Recommended adjusting weight	12 kg (M1)
Possible calibration points	12 kg
Stabilization time	3 s
Warm-up time	30 min
Eccentric loading at 1/3 [Max]	5 g
Maximum creep (15 minutes)	4 g
Maximum creep (30 minutes)	8 g

Approval

CE mark	✓
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Environmental conditions

Humidity of environment [Min]	40 %
Humidity of environment [Max]	80 %
Ambient temperature [Min]	5 °C
Ambient temperature [Max]	35 °C
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	235×310×165 mm
Net weight	1,2 kg
Shipping method	Parcel service
Net weight approx.	1,2 kg
Gross weight approx.	1,8 kg
Shipping weight	2,4 kg

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 (verification)	969-517

Pictograms

STANDARD



OPTION

