

KERN EG 420-3NM

KERN

The classic balance with robust tuning fork measuring system



Category

Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	EG

Measuring System

Weighing system	Tuning fork
Weighing capacity [Max]	420 g
Readability [d]	0,001 g
Reproducibility	0,001 g
Linearity	± 0,003 g
Minimum weight [Min]	0,02 g
Conformity assessment possible	✓
Resolution	420.000
Adjustment options	Adjusting with internal weight (manual)
Stabilization time	3 s
Eccentric loading at 1/3 [Max]	0,003 g
Units (if device is conformity assessed)	g ct
Minimum weight [Min] (ct)	0,2 ct
USP Minimum weight of sample (k = 2, U = 0.1%)	2 g
Construction type of the scale	Single-range balance

Units

g
dwt
tl (Tw)
tl (HK)
ozt
tl (Singap, Malays)
ct
mo
lb

oz
tol

Weighing capacity [Max] (ct)	2100 ct
Readability carat [d] (ct)	0,01 ct
Default unit	g

Display

Display type	LCD
Display backlight	✓
Display screen size	109×22 mm
Display digit height	17 mm
Languages of the user interface	Symbol language

Construction

Dimension housing (W×D×H)	180×235×75 mm
Dimensions completely mounted (W×D×H)	185×235×165 mm
Dimensions rectangular draught shield - inner (W×D×H)	158×130×78 mm
Dimensions rectangular draught shield - outer (W×D×H)	174×144×105 mm
Dimensions weighing surface (Ø)	118 mm
Dimensions weighing surface	118 mm
Material housing	plastic
Material weighing plate	stainless steel
Material platform	stainless steel
Material draught shield	plastic
Level indicator	✓
Levelling feet adjustable	✓
Draught shield optional	✓

Functions

Percentage determination	✓
Tolerance weighing	✓
Underfloor weighing	Eye (optional)
Capacity - Display	✓
Counting function	✓
Counting resolution (laboratory conditions)	420.000
Smallest piece weight when piece counting - laboratory conditions	1 mg
Smallest piece weight when piece counting - normal conditions	10 mg
Reference quantity	10, 30, 50, 100
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Auto-off interval(s) in mains power mode	3 min

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Tare function	manual (multi)
Number of keys for operation	5

Interface	
Interfaces	RS-232 standard

Power Supply

Supplied power supply	Power supply unit
Power supply type	Power adapter
Plug-in power supply / adapter for countries - included with the delivery	EURO
	AUS
	UK
	US
Plug-in power supply / adapter for countries - optional	CH
	EURO
	UK
	US
	CH

Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Power supply cable removable	removable
Input voltage device / power [Max]	12 V, 1 A

Power socket for mains adapter	Hollow plug inside minus, Ø outside 5,2 mm, Ø inside 1,7 mm, long 9,4 mm
Battery / accumulator type	NiCd
Rechargeable battery	EG-A04
Rechargeable battery operating time - backlight on	12 h
Rechargeable battery charging time	12 h

Rechargeable battery optional	Rchrg. battery optional (factory)
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Environmental conditions

Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Humidity of environment [Max]	80 %

Approval

CE mark	✓
Conformity assessment possible ex works	✓
Accuracy classe	II
Verification scale interval [e]	0,01 g
Verification scale interval [e] (ct)	0,1 ct

Services (optional)

Article number for conformity assessment	965-216
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)	400×320×220 mm
Shipping method	Parcel service
Net weight approx.	1,8 kg
Gross weight approx.	3,4 kg
Shipping weight	5,6 kg

Product information

GTIN/EAN number	4045761212626
Trade number	90160010
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION



FACTORY

