

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-N

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Tuning fork
Weighing capacity [Max]	420 g
Weighing capacity [Max] (ct)	2100 ct
Readability [d]	0,001 g
Readability carat [d] (ct)	0,01 ct
Resolution	420.000
Linearity	± 0,003 g
Reproducibility	0,001 g
Default unit	g
Units	g
	dwt
	tl (Tw)
	tl (HK)
	ozt
	tl (Singap, Malays)
	ct
	mo
	lb
	oz
	tol
Units (if device is conformity assessed)	g ct
Minimum weight [Min]	0,02 g
USP Minimum weight of sample (k = 2, U = 0.1%)	2 g
Minimum weight [Min] (ct)	0,2 ct

Adjustment options	Adjusting with internal weight (manual)
Stabilization time	3 s
Warm-up time	4 h
Eccentric loading at 1/3 [Max]	0,003 g

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

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

Construction	
Dimension housing (W×D×H)	180×235×75 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 completely mounted (W×D×H)	185×235×165 mm
Material housing	plastic
Material weighing plate	stainless steel
Material platform	Stainless steel
Material draught shield	plastic
Dimensions weighing surface (Ø)	118 mm
Levelling feet adjustable	✓
Draught shield optional	✓

Functions	
Number of keys for operation	5
Auto-off interval(s) in mains power mode	3 min
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min
Capacity - Display	✓
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Tolerance weighing	✓

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Underfloor weighing	Eye (optional)
Interfaces	RS-232 standard

Counting

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
Counting resolution (laboratory conditions)	420.000

Power Supply

Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	12 V, 1 A
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
Plug-in power supply / adapter for countries - optional	EURO UK US CH
Rechargeable battery optional	Rchrg. battery optional
Rechargeable battery charging time	12 h
Rechargeable battery operating time - backlight on	12 h
Battery / accumulator type	NiCd

Environmental conditions

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

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	400×320×220 mm
Net weight	1,759 kg
Shipping method	Parcel service
Net weight approx.	1,8 kg
Gross weight approx.	3,4 kg
Shipping weight	5,6 kg

Services (optional)

Article number for conformity assessment	965-216
Article number for DAkkS calibration	963-127
Article number for certificate of conformity (verification)	969-517

Pictograms

STANDARD



OPTION



FACTORY



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