

# KERN EG 420-3NM



The classic balance with robust tuning fork measuring system



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	✓
Pattern approval for conformity assessment	✓
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)

## Category

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

## Measuring System

Conformity assessment possible	✓
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

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Percentage determination	✓
Counting function	✓
Tolerance weighing	✓
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

