

# KERN EW 420-3NM

# KERN

The classic balance with robust tuning fork measuring system



Eccentric loading at 1/3 [Max]	0,003 g
Maximum creep (15 minutes)	10 mg
Maximum creep (30 minutes)	20 mg

Approval	
CE mark	✓

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 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	✓
Tolerance weighing - type of signal	visual
Underfloor weighing	Eye (optional)
Interfaces	RS-232 standard

Counting	
Smallest piece weight when piece counting - laboratory conditions	1 mg

Category	
Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	EW-N

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Tuning fork
Weighing capacity [Max]	420 g
Readability [d]	0,001 g
Resolution	420.000
Linearity	± 0,003 g
Reproducibility	0,001 g
Default unit	g
Units	g gn dwt tl (Tw) tl (HK) ozt tl (Singap, Malays) ct mo lb oz tol
USP Minimum weight of sample (k = 2, U = 0.1%)	2 g
Adjustment options	Adjusting with external weight
Recommended adjusting weight	200 g (E2); 200 g (E2)
Stabilization time	2 s
Warm-up time	4 h

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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 AUS 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
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

## Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	400×325×220 mm
Net weight	1,358 kg
Shipping method	Parcel service
Net weight approx.	1,4 kg
Gross weight approx.	3,0 kg
Shipping weight	5,7 kg

## Services (optional)

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

## Pictograms

### STANDARD



### OPTION

