

# KERN 440-21A

The classic balance in the laboratory

# KERN



## Category

Brand	KERN
Product category	Laboratory balance
Product group	Precision balance
Product family	440

## Measuring System

Construction type of the scale	Single-range balance
Weighing system	Strain gauge
Weighing capacity [Max]	60 g
Readability [d]	0,001 g
Resolution	60.000
Linearity	± 0,003 g
Reproducibility	0,001 g
Default unit	g

Units	g
	gn
	dwt
	tl (Tw)
	tl (HK)
	ozt
	ct
	mo
	oz
tol	

Adjustment options	Adjusting with external weight
Recommended adjusting weight	50 g (F2)
Possible calibration points	10 g; 20 g; 40 g; 50 g; 60 g
Stabilization time	3 s
Warm-up time	120 min
Eccentric loading at 1/3 [Max]	0,003 g
Maximum creep (15 minutes)	10 mg

Maximum creep (30 minutes)	20 mg
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## Approval

CE mark	✓
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## Display

Display type	LCD
Display backlight	✓
Display digit height	15 mm

## Construction

Dimension housing (W×D×H)	165×230×80 mm
Dimensions ring-shaped draught shield - inner (Ø×H)	90×40 mm
Dimensions ring-shaped draught shield - outer (Ø×H)	106×42 mm
Dimensions completely mounted (W×D×H)	165×230×123 mm
Material housing	plastic
Material weighing plate	plastic, with conductive lacquer
Material draught shield	plastic
Dimensions weighing surface (Ø)	81 mm

## Functions

Number of keys for operation	5
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min off
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Function for averaging under unstable weighing conditions	✓
Recipe/summing level	Rez A (Net total)
Underfloor weighing	None
Interfaces	RS-232 standard

## Counting

Smallest piece weight when piece counting - laboratory conditions	2 mg
Smallest piece weight when piece counting - normal conditions	20 mg
Reference quantity	5, 10, 20, 25, 50
Counting resolution (laboratory conditions)	30.000

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## Power Supply

Input voltage power supply / power [Max]	100 - 240 V AC 50/60 Hz 0.5 A
Input voltage device / power [Max]	9 V, 300 mA
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	10 h
Rechargeable battery operating time - backlight off	20 h
Battery	9 V block
Battery / accumulator type	NiMH
Battery connection	9V Bloc
Battery operating time	20 h

## Environmental conditions

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)	410×270×220 mm
Net weight	0,93 kg
Shipping method	Parcel service
Net weight approx.	0,95 kg
Gross weight approx.	1,4 kg
Shipping weight	4,9 kg

## Services (optional)

Article number for adjustment at the location of installation	961-247
Article number for DAkkS calibration	963-127
Article number for certificate of conformity (verification)	969-517

## Pictograms

### STANDARD



### OPTION

