

KERN 440-51N

The classic balance in the laboratory

KERN



lb
oz
tol

Display

Display type	LCD
Display backlight	✓
Display digit height	15 mm

Construction

Dimension housing (W×D×H)	165×230×80 mm
Dimensions weighing surface (W×D)	150×170 mm
Dimensions weighing surface	150×170 mm
Dimensions weighing platform (W×D×H)	153×172×80 mm
Material housing	plastic
Material weighing plate	stainless steel

Functions

Recipe/summing level	Rez A (Net total)
Percentage determination	✓
Underfloor weighing	Hook (optional)
Function for averaging under unstable weighing conditions	✓
Counting function	✓
Counting resolution (laboratory conditions)	2.000
Smallest piece weight when piece counting - laboratory conditions	2 g
Smallest piece weight when piece counting - normal conditions	20 g
Reference quantity	5, 10, 20, 25, 50
Auto-off interval(s) in battery mode/rechargeable battery mode	3 min off
Tare function	manual (multi)
Number of keys for operation	5

Interface

Interfaces	RS-232 standard
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Power Supply

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

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]	4000 g
Readability [d]	1 g
Reproducibility	1 g
Linearity	± 2 g
USP Minimum weight of sample (k = 2, U = 0.1%)	2 kg
Resolution	4.000
Adjustment options	Adjusting with external weight
Recommended adjusting weight	2 kg (M2); 2 kg (M2)
Possible calibration points	1 kg; 2 kg; 3 kg; 4 kg
Stabilization time	2 s
Warm-up time	10 min
Eccentric loading at 1/3 [Max]	3 g
Maximum creep (15 minutes)	4 g
Maximum creep (30 minutes)	8 g
Default unit	g

Units

kg
g
dwt
tl (Tw)
tl (HK)
ozt
mo

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Pictograms

STANDARD



OPTION



	US CH
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
Battery / accumulator type	NiMH
Battery	9 V block
Battery connection	9V Bloc
Battery operating time	20 h
Rechargeable battery	FCB-A01
Rechargeable battery operating time - backlight off	20 h
Rechargeable battery charging time	10 h
Rechargeable battery optional	Rchrg. battery optional

Environmental conditions

Ambient temperature [Min]	5 °C
Ambient temperature [Max]	35 °C
Humidity of environment [Max]	80 %
Storage temperature [Min]	-20 °C
Storage temperature [Max]	60 °C

Approval

CE mark	✓
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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	969-517

Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	347×207×170 mm
Shipping method	Parcel service
Net weight approx.	1,2 kg
Gross weight approx.	1,8 kg
Shipping weight	2,4 kg