

KERN ACJ 100-4M

KERN

The bestseller in analytical balances, with high-quality single-cell weighing system, verification optional



Category

Brand	KERN
Product category	Laboratory balance
Product group	Analytical balance
Product family	ACJ

Measuring System

Construction type of the scale	Single-range balance
Weighing system	Single-Cell
Weighing capacity [Max]	120 g
Weighing capacity [Max] (ct)	600 ct
Readability [d]	0,0001 g
Readability carat [d] (ct)	0,001 ct
Reproducibility	0,0002 g
Linearity	± 0,0003 g

USP Minimum weight of sample (k = 2, U = 0.1%)	400 mg
Minimum weight [Min]	0,01 g
Minimum weight [Min] (ct)	0,1 ct
Resolution	1.200.000
Adjustment options	Internal calibration (automatic) Adjusting with internal weight (manual)
Recommended adjusting weight	100 g (E2)
Automatic adjustment - Standard temperature deviation	2 °C
Automatic adjustment - Standard time interval	4 h
Stabilization time	3 s
Warm-up time	8 h
Eccentric loading at 1/3 [Max]	0,0005 g
Default unit	g

Units	g mg ct
Units (if device is conformity assessed)	g mg ct
Conformity assessment possible	✓

Display

Display type	LCD
Display type	LCD
Display backlight	no
Display screen size	115×32 mm
Display digit height	14 mm
Languages of the user interface	Symbol language

Construction

Dimension housing (W×D×H)	213×333×338 mm
Dimensions rectangular draught shield - inner (W×D×H)	174×162×227 mm
Dimensions rectangular draught shield - outer (W×D×H)	201×220×256 mm
Dimensions weighing surface (Ø)	91 mm
Dimensions weighing surface	91 mm
Material housing	cast aluminium, plastic
Material weighing plate	stainless steel
Material draught shield	glass
Material display housing	Plastics
Level indicator	✓
Levelling feet adjustable	✓

Functions

Sum memory function	✓
Recipe/summing level	Rez A (Net total)
Percentage determination	✓
Tolerance weighing	✓
Tolerance weighing - type of signal	visual
Standby function	✓
Counting function	✓
Counting resolution (laboratory conditions)	120.000
Counting reference weight can be entered	✓
Smallest piece weight when piece counting - laboratory conditions	1 mg
Smallest piece weight when piece counting - normal conditions	10 mg
Reference quantity	5, 10, 20, 50, 100

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Auto-off interval(s) in mains power mode	0 - 99 min
Tare function	manual (multi)
Number of keys for operation	6

Interface

Interfaces	RS-232 standard USB-Device
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Power Supply

Supplied power supply	Power supply unit
Plug-in power supply type	Power adapter

Plug-in power supply / adapter for countries - included with the delivery	EURO UK US CH
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Plug-in power supply / adapter for countries - optional	EURO UK US CH
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Input voltage power supply / power [Max]	110 V - 230 V AC
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Input voltage device / power [Max]	12 V, 1 A
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Environmental conditions

Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Humidity of environment [Min]	20 %
Humidity of environment [Max]	85 %
Storage temperature [Min]	-10 °C
Storage temperature [Max]	50 °C

Approval

CE mark	✓
Conformity assessment possible ex works	✓
Accuracy classe	I
Verification scale interval [e]	0,001 g
Verification scale interval [e] (ct)	0,01 ct

Services (optional)

Article number for conformity assessment	965-201
Article number for DAkkS calibration	963-101
Article number for certificate of conformity	969-517

Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	390×563×515 mm
Shipping method	Parcel service
Net weight approx.	7 kg
Gross weight approx.	10 kg
Shipping weight	22,6 kg

Pictograms

STANDARD



OPTION



FACTORY

