

KERN ACJ 100-4M



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

Conformity assessment possible	✓
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
Resolution	1.200.000
Linearity	± 0,0003 g
Reproducibility	0,0002 g
Default unit	g
Units	g mg ct
Units (if device is conformity assessed)	g mg ct
Minimum weight [Min]	0,01 g
USP Minimum weight of sample (k = 2, U = 0.1%)	400 mg
Minimum weight [Min] (ct)	0,1 ct
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

Approval

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

Display

Display type	LCD
Display type	LCD
Display screen size	115×32 mm
Display backlight	no
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
Material display housing	Plastics
Material housing	cast aluminium, plastic
Material weighing plate	stainless steel
Material draught shield	glass
Dimensions weighing surface (Ø)	91 mm
Levelling feet adjustable	✓

Functions

Number of keys for operation	6
Auto-off interval(s) in mains power mode	0 - 99 min
Tare function	manual (multi)
Percentage determination	✓
Counting function	✓
Tolerance weighing	✓
Tolerance weighing - type of signal	visual

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Standby function	✓
Recipe/summing level	Rez A (Net total)
Sum memory function	✓
Interfaces	RS-232 standard USB-Device

Counting

Smallest piece weight when piece counting - laboratory conditions	1 mg
Smallest piece weight when piece counting - normal conditions	10 mg
Counting reference weight can be entered	✓
Reference quantity	5, 10, 20, 50, 100
Counting resolution (laboratory conditions)	120.000

Power Supply

Input voltage power supply / power [Max]	110 V - 230 V AC
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

Environmental conditions

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

Packing & Shipping

Readability force [d] (N)	1 d
Dimensions packaging (W×D×H)	390×563×515 mm
Net weight	6,271 kg
Shipping method	Parcel service
Net weight approx.	7 kg
Gross weight approx.	10 kg
Shipping weight	22,6 kg

Services (optional)

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

Pictograms

STANDARD



OPTION



FACTORY

