

KERN ABJ 220-4NM

KERN

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



Category	
Brand	KERN
Product category	Laboratory balance
Product group	Analytical balance
Product family	ABJ

Measuring System	
Construction type of the scale	Single-range balance
Weighing system	Single-Cell
Weighing capacity [Max]	220 g
Weighing capacity [Max] (ct)	1100 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] (ct)	0,1 ct
Resolution	2.200.000
Adjustment options	Internal calibration (automatic)
	Adjusting with internal weight (manual)
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
Maximum creep (15 minutes)	1 mg
Maximum creep (30 minutes)	2 mg
Default unit	g

Units	g mg ct
Units (if device is conformity assessed)	g mg ct

Display	
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	plastic
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
Underfloor weighing	None
Standby function	✓
Counting function	✓
Counting resolution (laboratory conditions)	220.000
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
Auto-off interval(s) in mains power mode	0 - 99 min

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Tare function	manual (multi)
Number of keys for operation	6

Interface	
Interfaces	RS-232 (optional)

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
	AUS
	UK
	US
Plug-in power supply / adapter for countries - optional	CH
	EURO
	AUS
	UK
	US
	CH

Input voltage power supply / power [Max]	110 V - 230 V AC
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Input voltage device / power [Max]	12 V DC, 1000 mA
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Power socket for mains adapter	Hollow plug, inside minus, Ø outside 5,5 mm, Ø inside 2,1 mm, long 9,5 mm
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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	✓

Services (optional)	
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)	390×560×520 mm
Shipping method	Parcel service
Net weight approx.	7 kg

Gross weight approx.	10 kg
Shipping weight	22,7 kg

Pictograms

STANDARD



OPTION

