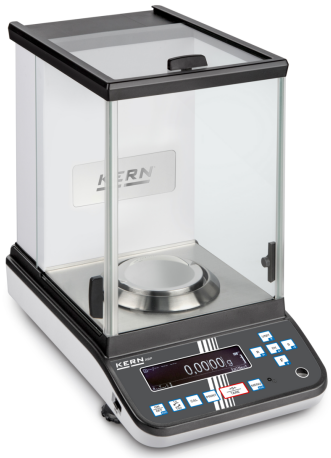
KERN **ABP 100-4M**

Premium analytical balance with the latest Single-Cell Generation for extremely rapid, stable weighing results



Category

Brand	KERN
Product categoriy	Laboratory balance
Product group	Analytical balance
Product family	ABP

Measuring System

Automatic adjustment - Standard temperature deviation	1 °C
Weighing system	Single-Cell
Weighing capacity [Max]	120 g
Automatic adjustment - Standard time interval	4 h
Readability [d]	0,0001 g
Reproducibility	0,0001 g
typical reproducibility	0,00007 g
Linearity	± 0,0002 g
Minimum weight [Min]	0,01 g
Conformity assessment possible	✓
Resolution	1.200.000
Tare range	120 g
Adjustment options	Internal calibration (automatic) Adjusting with internal weight (manual)
Stabilization time	2 s
Warm-up time	8 h
Eccentric loading at 1/3 [Max]	0,0003 g
Units (if device is conformity assessed)	g mg ct
Minimum weight [Min] (ct)	0,1 ct
USP Minimum weight of sample (k = 2, U = 0.1%)	200 mg
typical USP Minimum weight of sample	140 mg
Construction type of the scale	Single-range balance
Units	g mg ct
Weighing capacity [Max] (ct)	600 ct
Readability carat [d] (ct)	0,001 ct
Default unit	g

Display

Display type	OLED
Display type	OLED
Display backlight	LED is self-luminous
Display segments	7
Display digit height	12 mm
Languages of the user interface	German English

Construction

Dimension housing (W×D×H)	213×367×345 mm
Dimensions rectangular draught shield - inner (W×D×H)	170×132×221 mm
Dimensions rectangular draught shield - outer (W×D×H)	180×259×221 mm
Dimensions weighing surface (Ø)	91 mm
Dimensions weighing surface	91 mm
Material housing	cast aluminium, plastic
Material weighing plate	stainless steel
Material platform	stainless steel
Material draught shield	glass
Level indicator	✓
Levelling feet adjustable	✓

Functions

Sum memory function	✓
Recipe/summing level	Rez B (Net-total, memory with plain text designations + setpoint, also for printout)
Recipe weighing - number of database entries	5
Recipe weighing - number of ingredients per database entry	10
Percentage determination	✓
Density determination	✓
Tolerance weighing	✓

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Tolerance weighing - type of signal	visual
Underfloor weighing	Hook (included in delivery)
Function for averaging under unstable weighing conditions	✓
Capacity - Display	✓
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	10, 20, 50, 100
Tare function	manual (multi)
Number of keys for operation	11

Interface

Interfaces	RS-232 standard USB-Host/Master USB-Device

Power Supply

Supplied power supply	Power supply unit
Power supply type	Power adapter
Plug-in power supply / adapter for countries - included with the delivery	EURO AUS UK US CH
Plug-in power supply / adapter for countries - optional	EURO UK US CH
Input voltage power supply / power [Max]	100 V - 240 V AC, 50 / 60 Hz
Power supply cable removable	removable
Input voltage device / power [Max]	12 V, 1 A
Power socket for mains adapter	Hollow plug, inside minus, Ø outside 5,5 mm, Ø inside 2,1 mm, long 9,5 mm

Environmental conditions

Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Humity of environment [Max]	80 %
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)	382×585×535 mm
Shipping method	Parcel service
Net weight approx.	8 kg
Gross weight approx.	11 kg
Shipping weight	23,9 kg

Product information

GTIN/EAN number	4045761213890
REACH classification	no prohibited substances

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Pictograms

STANDARD

OPTION

FACTORY