

KERN ABP 100-5DAM

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



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

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

Dimension housing (W×D×H)	220×370×350 mm
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Dimensions rectangular draught shield - inner (W×D×H)	166×156×220 mm
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Dimensions rectangular draught shield - outer (W×D×H)	213×156×225 mm
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Dimensions weighing surface (Ø)	91 mm
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Material housing	cast aluminium, plastic
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Material weighing plate	stainless steel
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Material platform	Stainless steel
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Material draught shield	glass
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Level indicator	✓
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Levelling feet adjustable	✓
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Functions

Sum memory function	✓
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Recipe/summing level	Rez B (Net-total, memory with plain text designations + setpoint, also for printout)
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Recipe weighing - number of database entries	5
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Recipe weighing - number of ingredients per database entry	10
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Percentage determination	✓
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Tolerance weighing	✓
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Tolerance weighing - type of signal	visual
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Underfloor weighing	Hook (included in delivery)
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Function for averaging under unstable weighing conditions	✓
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Category

Brand	KERN
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Product category	Laboratory balance
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Product group	Analytical balance
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Product family	ABP-A
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Measuring System

Construction type of the scale	Multi-division balance
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Weighing system	Single-Cell
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Weighing capacity [Max]	52 g; 120 g
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Weighing capacity [Max] (ct)	600 ct
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Readability [d]	0,00001 g; 0,0001 g
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Readability carat [d] (ct)	0,0001 ct; 0,001 ct
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Reproducibility	0,00002 g; 0,0001 g
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Linearity	± 0,00005 g; 0,0002 g
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USP Minimum weight of sample (k = 2, U = 0.1%)	40 mg
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Minimum weight [Min]	0,001 g
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Minimum weight [Min] (ct)	0,01 ct
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Resolution	5.200.000, 1.200.000
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Tare range	120 g
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Adjustment options	Internal calibration (automatic) Adjusting with internal weight (manual)
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Automatic adjustment - Standard temperature deviation	1 °C
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Automatic adjustment - Standard time interval	4 h
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Stabilization time	8 s; 2 s
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Warm-up time	8 h; 8 h
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Eccentric loading at 1/3 [Max]	0,0001 g; 0,0003 g
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Default unit	g
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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
Plug-in 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
	AUS
	UK
	US
	CH
Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	12 V, 1.6 A

Environmental conditions	
Ambient temperature [Min]	10 °C
Ambient temperature [Max]	30 °C
Humidity 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; 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)	595×380×540 mm
Shipping method	Parcel service
Net weight approx.	8 kg
Gross weight approx.	13 kg
Shipping weight	24,4 kg

Pictograms

STANDARD



OPTION



FACTORY

