

KERN ABP 100-5DM

KERN

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



Category

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

Measuring System

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

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
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)	220×370×350 mm
Dimensions rectangular draught shield - inner (W×D×H)	166×156×220 mm
Dimensions rectangular draught shield - outer (W×D×H)	213×156×225 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	✓
Tolerance weighing	✓
Tolerance weighing - type of signal	visual
Underfloor weighing	Hook (included in delivery)
Function for averaging under unstable weighing conditions	✓

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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
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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 AUS UK US CH
Plug-in power supply / adapter for countries - optional	EURO UK US CH
Input voltage power supply / power [Max]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	12 V, 1 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
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Services (optional)

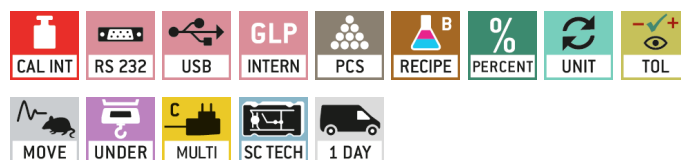
Article number for conformity assessment	965-201
Article number for DAkkS calibration	963-101
Article number for certificate of conformity (verification)	969-517

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.	12 kg
Shipping weight	24,4 kg

Pictograms

STANDARD



OPTION



FACTORY

