KERN **ABP 100-5DAM**

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



Date of creation: 24.10.2026

Category

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

Measuring System

Weighing system	Single-Cell
Weighing capacity [Max]	52 g; 120 g
USP Minimum weight of sample (k = 2, U = 0.1%)	40 mg
Readability [d]	0,00001 g; 0,0001 g
Automatic adjustment - Standard temperature deviation	1 °C
Automatic adjustment - Standard time interval	4 h
Reproducibility	0,00002 g; 0,0001 g
Linearity	± 0,00005 g; 0,0002 g
Minimum weight [Min] (verifiable)	0,001 g
Resolution	5.200.000, 1.200.000
Terminal resolution (verifiable)	120.000
Tare range	120 g
Adjustment options	Internal calibration (automatic) Adjusting with internal weight (manual)
Stabilization time	8 s; 2 s
Eccentric loading at 1/3 [Max]	0,0001 g; 0,0003 g
Weighing capacity [Max] (ct)	600 ct
Conformity assessment possible	✓

Construction type of the scale	Multi-division balance
Units	g mg gn dwt ozt ct oz ffa m g/mol mom HTI STI MTI
Units (if device is conformity assessed)	g mg ct
Default unit	g
Minimum weight [Min] (ct)	0,01 ct
Readability carat [d] (ct)	0,0001 ct; 0,001 ct
Warm-up time	8 h; 8 h
typical reproducibility	0,00007 g
typical USP Minimum weight of sample	140 mg

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	✓

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Levelling feet adjustable	✓

Functions

Density determination	✓
Hold function	✓
Percentage determination	✓
Standby function	✓
Statistic function	✓
Function for averaging under unstable weighing conditions	✓
Tolerance weighing	✓
Counting function	✓
Capacity - Display	✓
Tare function	manual (multi)
Underfloor weighing	Hook (included in delivery)
Counting resolution (laboratory conditions)	1.200.000
Counting reference weight can be entered	✓
Smallest piece weight when piece counting - laboratory conditions	0,1 mg
Reference quantity	10, 20, 50, 100
Recipe/summing level	Rez A (Net total) 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
Number of keys for operation	11
Smallest piece weight when piece counting - normal conditions	1 mg
Tolerance weighing - type of signal	visual

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 AUS 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, 1.6 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 [Min]	20 %
Humity of environment [Max]	80 %
Storage temperature [Min]	-10 °C
Storage temperature [Max]	50 °C

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
Shipping volume weight	24,4 kg

Product information

GTIN/EAN number	4045761311992
Trade number	90160010

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Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION



FACTORY

