KERN **ABT 120-5DNM**

The premium model with single-cell weighing system



Date of creation: 23.10.2026

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

Measuring System	
Weighing system	Single-Cell
Weighing capacity [Max]	42 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	0,5 °C
Automatic adjustment - Standard time interval	4 h
Reproducibility	0,00002 g; 0,0001 g
Linearity	± 0,00003 g; 0,0002 g
Resolution	4.200.000, 1.200.000
Tare range	120 g
Adjustment options	Internal calibration (automatic) Adjusting with internal weight (manual)
Stabilization time	10 s; 4 s
Eccentric loading at 1/3 [Max]	0,00009 g; 0,0003 g
Construction type of the scale	Multi-range balance
Units	g ct
Default unit	g
Warm-up time	8 h; 8 h
typical reproducibility	0,000007 g
typical USP Minimum weight of sample	14 mg

Display	
Display type	LCD
Display digit height	14 mm

Construction	
Dimension housing (W×D×H)	215×340×335 mm
Dimensions rectangular draught shield - inner (W×D×H)	168×172×223 mm
Dimensions rectangular draught shield - outer (W×D×H)	200×240×260 mm
Dimensions weighing surface (Ø)	80 mm
Dimensions weighing surface	80 mm
Material housing	metal
Material weighing plate	stainless steel
Material draught shield	glass
Material display housing	plastic
Level indicator	✓
Levelling feet adjustable	✓

Functions	
Density determination	✓
Percentage determination	✓
Standby function	✓
Function for averaging under unstable weighing conditions	✓
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)
Number of keys for operation	6
Smallest piece weight when piece counting - normal conditions	1 mg

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Interface

Interfaces	RS-232 standard

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]	220 V - 240 V AC, 50 Hz
Input voltage device / power [Max]	12 V DC, 1000 mA
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 DAkkS calibration	963-101
Article number for certificate of conformity	969-517

Packing & Shipping

Delivery time	1 d
Dimensions packaging (W×D×H)	430×685×650 mm
Shipping method	Parcel service
Net weight approx.	8 kg
Gross weight approx.	13 kg
Shipping weight	38,3 kg
Shipping volume weight	38,3 kg

Product information

GTIN/EAN number	4045761185531
Trade number	90160010
Warranty Time	36 mon
REACH classification	no prohibited substances

Pictograms

STANDARD



OPTION

