

PRODUCT BROCHURE

KERN ABT 120-5DNM

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ENGLISH



The premium model with single-cell weighing system

CONTACT

KERN & SOHN GmbH
Ziegelei 1
72336 Balingen
Germany

Phone : +49 7433 9933-0
Fax : +49 7433 9933-149
Email : info@kern-sohn.com
Web : www.kern-sohn.com



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PRODUCT SHOWCASE



ENGLISH

DESCRIPTION

- Automatic internal adjustment in the case of a change in temperature = 0,5 °C or timecontrolled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- Dosage aid: High stability mode and other filter settings can be selected
- Simple recipe weighing and documenting with a combined tare/print function. In addition, the ingredients for the recipe are numbered automatically and printed out with their corresponding number and nominal weight
- Identification number: 4 digits, printed on calibration protocol freely programmable
- Printout of a GLP-compliant calibration report conveniently at the touch of a button
- Automatic data output to the PC/printer each time the balance is steady
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed.
- Protective working cover included with delivery

SPECIFICATIONS

Article codes, product groups & Status information

Model article-code	ABT 120-5DNM
Model-Serie	ABT
Assortment	KERN
Product Type	Laboratory balances
Product group	Analytical balances
Product usage type	Main article
EAN code (Model)	4045761185531
Customs tariff number	90160010
CE Label	yes

Technical data - Primary

Weighing capacity	42 g; 120 g
Readability	0.00001 g; 0.0001 g
Repeatability	0.00002 g; 0.0001 g
Linearity	± 0.00003 g; 0.0002 g
Verification value (e)	0.001 g; 0.001 g
Minimum load (Min)	0.001 g

Technical data - Construction

Dimensions draft shield, inner (W×D×H)	200×240×260 mm
Dimensions draft shield, outer (W×D×H)	215×340×335 mm
Bubble Level	yes
Material weighing plate	stainless steel
Revolving screw feet	yes
Casing material	metal

Weighing space (W×D×H)	168×172×223 mm
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Technical data - Display

Display height	14 mm
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Technical data - Power supply

Mains adapter/adapter included	AUS;CH;EURO;UK;US
Input Voltage	220 V - 240 V AC, 50 Hz
Mains adapter	Power supply unit

Technical data - Measuring system

Calibration method	Internal calibration (automatic); Adjusting with internal weight (manual)
Linearity	± 0.00003 g; 0.0002 g
Minimum weight (USP)	40 mg
Readability	0.00001 g; 0.0001 g
Repeatability	0.00002 g; 0.0001 g
Stabilisation time under laboratory conditions	10 s; 4 s
Tare range	120 g
Warm up time	8 h; 8 h
Weighing system	Single-Cell
Weighing units	ct;g
Carat - max capacity	210,045 ct; 600 ct
Carat - readout	0.0001 ct; 0.001 ct

Technical data - Environmental conditions

Maximum humidity	80 %
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Maximum operating temperature 30 °C

Minimum ambient temperature 10 °C

Technical data - Packing & Shipping

Dimensions packaging (W×D×H) 430×685×650 mm

Gross weight 13 kg

Net weight 8 kg

Shipping method Parcel service

Packaging component - by weight - paper 165 g

Packaging component - by weight - cardboard 4805 g

Packaging component - by weight - plastics 30 g

Packaging component - by weight - glass 0 g

Packaging component - by weight - wood 0 g

Packaging component - by weight - foam 100 g

Delivery time 1 d

Technical data - Counting data

Counting resolution 120000

Minimum piece weight at piece counting (Laboratory) 1 mg

Minimum piece weight 10 mg

Technical data - Verification

Verification Value E 0.001 g; 0.001 g

Minimum load (Min) 0.001 g

Verification by KERN possible yes

Verification class I

Optional Services

DAkkS Calibration 963-101

Verification 965-201

FUNCTIONS

Standard



Option



Factory



ACCESSORIES

Model	Description
770-926	Interface cable 770-926
911-013	Matrix needle printer KERN 911-013
ACS-A01	Data Interface KERN ACS-A01
YKI-01	RS-232 / Ethernet adapter KERN YKI-01
YKN-01	Matrix needle printer KERN YKN-01
YDB-03	Set for Density Determination KERN YDB-03
YKI-02	RS-232 / Bluetooth adapter KERN YKI-02
AEJ-A05	Precious Stones Plate KERN AEJ-A05
ABT-A02S05	Protective Working Cover KERN ABT-A02S05
YBI-01A	Ioniser KERN YBI-01A
ABP-A01	Ioniser KERN ABP-A01
YKA-42	Power Adapter KERN YKA-42
AFH 13	Converter KERN AFH 13
YKG-01	Dot Matrix Printer KERN YKG-01
YKH-01	Thermal printer KERN YKH-01
315-107-103	Safety Set KERN 315-107-103
YPS-03	Antivibration table YPS-03
YPS-04	Antivibration plate KERN YPS-04
YPS-05	Antivibration plate KERN YPS-05
YKC-01	Thermal printer KERN YKC-01
SCD-4.0-PRO-DL-AS05	Software KERN BalanceConnection SCD-4.0-PRO-DL-AS05
SCD-4.0-DLS05	BalanceConnection Standard KERN SCD-4.0-DLS05

SERVICES

Model	Description
965-411	Assembly of components (< 50kg) 965-411
965-201	Verification / Conformity assessment according to NAWI (2014/31/EU) KERN 965-201
963-101	DAkkS Calibration KERN 963-101
969-517	Confirmation of the manufacturer's specification (only in combination with DAkkS calibration certificate) 969-517

Model	Description
970-111	Warranty extension KERN (+2 years) 970-111

SPARE PARTS

Model	Description
RABT-6001	Weighing plate KERN RABT-6001
RABT-4001	Keyboard overlay KERN RABT-4001
RABT-6003	Rubber shock absorber RABT-6003
RABT-8003	Display protective plate RABT-8003
RABT-8006	Windbreak glass RABT-8006
RABT-2006	Power supply PCB RABT-2006
RABT-2008	Adjustment control KERN RABT-2008
RABT-6005	Windbreak cover KERN RABT-6005
RABT-6006	Windbreak floor RABT-6006
RABT-8002	Cover RABT-8002
RABT-8005	Lever arm: RABT-8005
RABT-8009	Metal plate: High accuracy of measurement due to the level metal plateRABT-8009
RABT-8010	Metal plate: High accuracy of measurement due to the level metal plateRABT-8010
RABT-6002	Weighingplate carrier KERN RABT-6002
RABT-8008	Windbreak glass KERN RABT-8008
RABT-8013	Mounting KERN RABT-8013
RABT-8014	Mounting KERN RABT-8014
RABT-6004	Windbreak glass KERN RABT-6004
RABT-8004	Metal plate: High accuracy of measurement due to the level metal plateRABT-8004
RABT-8007	Windbreak glass KERN RABT-8007
YKA-42	Power Adapter KERN YKA-42

SOFTWARES

Model	Description
SCD-4.0-DL	BalanceConnection Standard KERN SCD-4.0-DL
SCD-4.0-PRO-DL	Software KERN BalanceConnection SCD-4.0-PRO-DL

RELATED ARTICLES DATA

Model name	Weighing capacity	Readability	Repeatability	Linearity	Verification value (e)	Minimum load (Min)
ABT 100-5NM	101 g	0.00001 g	0.00005 g	± 0.00015 g	0.001 g	0.001 g
ABT 120-5DNM	42 g; 120 g	0.00001 g; 0.0001 g	0.00002 g; 0.0001 g	± 0.00003 g; 0.0002 g	0.001 g; 0.001 g	0.001 g
ABT 220-4NM	220 g	0.0001 g	0.0001 g	± 0.0002 g	0.001 g	0.01 g
ABT 220-5DNM	82 g; 220 g	0.00001 g; 0.0001 g	0.00005 g; 0.0001 g	± 0.0001 g; 0.0002 g	0.001 g; 0.001 g	0.001 g
ABT 320-4NM	320 g	0.0001 g	0.00015 g	± 0.0003 g	0.001 g	0.01 g