PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

30.10.2026

KERN ABT 120-5DNM

The premium model with single-cell weighing system

ENGLISH



CONTACT

KERN & SOHN GmbH
Ziegelei 1
72336 Balingen
Germany

+49 7433 9933-0
info@kern-sohn.com
www.kern-sohn.com







ENGLISH

FEATURES

- 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

TECHNICAL DATA

- Large LCD display, digit height 14 mm
- Dimensions weighing surface, stainless steel, ⌀ 80 mm
- Weighing space W×D×H 168×172×223 mm
- Overall dimensions 215×340×335 mm
- Net weight approx. 8 kg
- Permissible ambient temperature 10 °C/30 °C

MAIN SCOPE OF APPLICATIONS

- Laboratories
- Research
- Quality control
- Universities

PLEASE NOTE FOR YOUR ORDER

- Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d] and when the load is fully removed, the balance switches back to the lower range

PICTOGRAMS

Standard



Option



ENGLISH

MODEL OVERVIEW

Model	Weighing capacity [Max]	Readability [d]	Reproducibility	Linearity	Dimensions weighing surface
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	80 mm
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	80 mm
ABT 100-5NM	101 g	0,00001 g	0,00005 g	± 0,00015 g	80 mm
ABT 320-4NM	320 g	0,0001 g	0,00015 g	± 0,0003 g	80 mm

ACCESSORIES

Model	Description
315-107-103	Safety set 315-107-103, included weight 5 g (E2); 100 g (E2)
770-926	RS232 interface cable 770-926
ABP-A01	Ioniser ABP-A01
ABT-A02S05	Protective working cover ABT-A02S05, scope of delivery: 5 items
ACS-A01	RS232 interface cable ACS-A01
AEJ-A05	Gemstone bowl AEJ-A05
AFH 13	Converter RS232 to USB AFH 13
YBI-01A	Ioniser YBI-01A
YDB-03	Density determination set YDB-03
YKC-01	Thermal printer YKC-01
YKG-01	Dot Matrix Printer YKG-01
YKH-01	Thermal printer YKH-01
YKI-10	RS232-Ethernet adapter YKI-10 (RS-232 standard, Ethernet, RS-485)

Model	Description
YKI-11	RS232-Ethernet adapter YKI-11 (Ethernet, RS-232 standard - 2x)
YKI-12	RS232-WiFi adapter YKI-12
YKT-01	Needle printer YKT-01
YPS-03	Antivibration table YPS-03
YPS-04	Anti-vibration plate KERN YPS-04 (400×450×60 mm, 30 kg)
YPS-05	Anti-vibration plate KERN YPS-05 (565×450×60 mm, 42 kg)

SOFTWARE

Model	Description
SCD-4.0-DL	Software SCD-4.0-DL (Scope of supplies: Download link for 1 license)
SCD-4.0-DLS05	Software SCD-4.0-DLS05 (Scope of supplies: Download link for 5 licenses)
SCD-4.0-PRO-DL	Software SCD-4.0-PRO-DL (Scope of supplies: Download link for 1 license)
SCD-4.0-PRO-DL-AS05	Software SCD-4.0-PRO-DL-AS05 (Scope of supplies: Download link for 5 licenses)

SERVICES

Model	Description
963-101	DAkkS calibration certificate 963-101
965-411	Assembly of components 965-411 (< 50kg)
969-517	Confirmation of the manufacturer's specification (only in combination with DAkkS calibration certificate)969-517
970-110	Warranty extension (+2 years) 970-110

KERN Pictogram Overview

	Internal adjustment: Adjusting accuracy using internal adjustment weight
	Data interface RS-232: For connection to printers, PCs or other peripheral devices for data transfer over longer distances. Network in bus topology possible
	GLP/ISO protocol: The measuring device generates a GLP-compliant printout
	Value & time: The measuring device displays the value, date, and time, regardless of the connected printer
	Net total: The weight values of the recipe ingredients can be added up and the total weight of the recipe printed out
	Density determination: The density of liquids and solids with a density of ≤ /≥ 1 is determined directly in the measuring device
	Percentage determination: determining the deviation in % from the target value (100 %)
	Units can be switched to e.g. non-metric units
	Suspended weighing: Load support with hook on the underside of the balance
	Universal plug-in power supply: With universal input and optional input socket adapters for EU, CH, GB or EU, CH, GB, US or EU, CH, GB, US, AUS
	Weighing principle single cell technology: Advanced version of the force compensation principle with the highest level of precision
	Package shipment by courier service: The duration of internal product provision is one day
	Accredited calibration (DKD): The duration of the accredited calibration is 3 working days

ENGLISH