

Analytical balance KERN ABT



- Single-cell advanced technology:
- Fully automatic manufacture weighing cell from one piece of material
 - Stable temperature behaviour
 - Short stabilisation time
 - Shock proof construction
 - High corner load performance

The premium model with single-cell weighing system

Features

- **Automatic internal adjustment** in the case of a change in temperature > 0,5 °C and time-controlled every 4 hours
- **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
- **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

Technical data

- Large LCD display, digit height 14 mm
- Weighing plate dimensions Ø 80 mm
- Overall dimensions WxDxH 217x356x338 mm
- Weighing space WxDxH 168x172x223 mm
- Net weight approx. 7 kg
- Permissible ambient temperature 10 °C / 30 °C

Accessories

- **Protective working cover**, standard. Can be re-ordered, scope of delivery: 5 items, KERN ABT-A02S05
- **1 Set for density determination** of liquids and solids with density $\leq/\geq 1$. The density is indicated directly on the display, for details see page 182, KERN YDB-03
- **2 Ioniser** to neutralise electrostatic charge, see page 184, KERN YBI-01
- **3 Weighing table** to absorb vibrations and oscillations, which would otherwise distort the weighing result, see page 184, KERN YPS-03
- **Suitable printers** see page 177 ff.

STANDARD



OPTION



FACTORY



Model	Weighing range [Max] g	Readout [d] mg	Verification value [e] mg	Minimum load [Min] mg	Reproducibility mg	Linearity mg	Options			
							Verification		DAkkS Calibr. Certificate	
							MI KERN		DKD KERN	
ABT 120-4M	120	0,1	1	10	0,1	± 0,2	965-201		963-101	
ABT 220-4M	220	0,1	1	10	0,1	± 0,2	965-201		963-101	
ABT 320-4M	320	0,1	1	10	0,1	± 0,3	965-201		963-101	
ABT 100-5M	101	0,01	1	1	0,05	± 0,15	965-201		963-101	
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible. Verification at the factory, we need to know the full address of the location of use. Dual-range balance switches automatically to the next largest weighing range [Max] and readout [d].										
ABT 120-5DM	42 120	0,01 0,1	1 1	1	0,02 0,1	± 0,05 0,2	965-201		963-101	
ABT 220-5DM	82 220	0,01 0,1	1 1	1	0,05 0,1	± 0,1 0,2	965-201		963-101	

KERN Pictograms:

 CAL INT	Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motodriven).	 PCS	Piece counting : Reference quantities selectable. Display can be switched from piece to weight	 UNDER	Suspended weighing : Load support with hook on the underside of the balance
 CAL EXT	Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required.	 RECIPE A	Recipe level A : Separate memory for the weight of the tare container and the recipe ingredients (net total).	 BATT	Battery operation : Ready for battery operation. The battery type is specified for each device
 MEMORY	Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.	 RECIPE B	Recipe level B : Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display.	 ACCU	Rechargeable battery pack : Rechargeable set
 AUBI	Alibi memory: Electronic archiving of weighing results, complying with the 2009/23/EC standard.	 RECIPE C	Recipe level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode.	 MULTI	Universal mains adapter: with universal input and optional input socket adapters for A) EU, GB B) EU, GB, CH, USA C) EU, GB, CH, USA, AUS
 RS 232	Data interface RS-232 : To connect the balance to a printer, PC or network.	 SUM A	Totalising level A: The weights of similar items can be added together and the total can be printed out.	 230 V	Mains adapter : 230V/50Hz in standard version for EU. On request GB, USA or AUS version available
 RS 485	RS-485 data interface : To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.	 SUM C	Totalising level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display, adjustment of recipe when dosages are exceeded, multiplier function, barcode recognition.	 230 V	Power supply : Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, USA or AUS on request.
 USB	USB data interface : To connect the balance to a printer, PC or other peripherals.	 DMS	Weighing principle: Strain gauge Electrical resistor on an elastic deforming body	 BT	Bluetooth* data interface : To transfer data from the balance to a printer, PC or other peripherals.
 WLAN	WLAN data interface : To transfer data from the balance to a printer, PC or other peripherals.	 T-FORK	Weighing principle: Tuning fork A resonating body is electromagnetically excited, causing it to oscillate.	 PERCENT	Percentage determination : Determining the deviation in % from the target value (100 %).
 SWITCH	Control outputs (optocoupler, digital I/O) : To connect relays, signal lamps, valves, etc.	 FORCE	Weighing principle: Electromagnetic force compensation Coil inside a permanent magnet. For the most accurate weighings	 UNIT	Weighing units : Can be switched to e.g. non-metric units at the touch of a key. See balance model. Please refer to KERN's website for more details.
 DUAL	Interface for second balance : For direct connection of a second balance	 SC TECH	Weighing principle: Single cell technology Advanced version of the force compensation principle with the highest level of precision	 TOL	Weighing with tolerance range : Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning
 LAN	Network interface : For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter.	 M	Verification possible : The time required for verification is specified in the pictogram.	 MOVE	Hold function : (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value
 RC	Wireless data transfer : between the weighing unit and the evaluation unit using an integrated radio module.	 DAKKS	DAKkS calibration possible (DKD) : The time required for DAKkS calibration is shown in days in the pictogram	 IP	Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram.
 GLP INTERN	GLP/ISO log : The balance displays the weight, date and time, regardless of a printer connection.	 1 DAY	Package shipment : The time required for internal shipping preparations is shown in days in the pictogram	 ATEX	ATEX explosion protection : Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device
 GLP PRINTER	GLP/ISO log : With weight, date and time. Only with KERN printers.	 2 DAYS	Pallet shipment : The time required for internal shipping preparations is shown in days in the pictogram.	 INOX	Stainless steel : The balance is protected against corrosion.
		 3 YEARS WARRANTY	Warranty : The warranty period is shown in the pictogram		

KERN – Precision is our business

To ensure the high precision of your balance KERN offers you the the appropriate test weight in the international OIML error limit classes E1-M3 from 1 mg - 2000 kg. In combination with a DAKkS calibration certificate the best pre-requisite for proper balance calibration.

The KERN DAKkS calibration laboratory today is one of the most modern and best-equipped DAKkS calibration laboratories for balances, test weights and force-measurement in Europe.

Thanks to the high level of automation, we can carry out DAKkS calibration of

balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Range of services:

- DAKkS calibration of balances with a maximum load of up to 50 t
- DAKkS calibration of weights in the range of 1 mg – 2500 kg
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAKkS calibration certificates in the following languages D, GB, F, I, E, NL, PL

Importør:

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