







Single-cell advanced technology:

- Fully automatically manufactured weighing cell from one piece of material
- Stable temperature behaviour
- Short stabilisation time: Steady weight values within approx. 5 sec under laboratory conditions
- · Improved mechanical sturdiness
- 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 weight value
- Identification number: 4 digits, printed on calibration protocol freely programmable
- Automatic data output to the PC/printer each time the balance has obtained a stable weighing result

• 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
- Dimensions of weighing plate 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 retrofitted, KERN ABT-A02
- Set for density determination of liquids and solids with density ≤/≥ 1. The density is indicated directly on the display, for details see page 161, KERN YDB-03
- II loniser to neutralise electrostatic charge, see page 162, KERN YBI-01
- 2 Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, see page 162, KERN YPS-03
- Suitable printers and an extensive accessories, see page 157 ff.

STANDARD

































DAkkS +3 DAYS



Model	Weighing	Readout	Verification	Minimum	Reproduci-	Linearity		Options			
	range		value	load	bility			Verification DAkkS Calib		r. Certificate	
	[Max]	[d]	[e]	[Min]				MI		DAkkS	
KERN	g	mg	mg	mg	mg	mg		KERN		KERN	
ABT 120-4M	120	0,1	1	10	0,1	± 0,2	0	965-201		963-101	
ABT 220-4M	220	0,1	1	10	0,1	± 0,2	0	965-201		963-101	
ABT 320-4M	320	0,1	1	10	0,1	± 0,3	0	965-201		963-101	
ABT 100-5M	101	0,01	1	1	0,05	± 0,15	0	965-201		963-101	
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	0	965-201		963-101	
ABT 220-5DM	82 220	0,01 0,1	1 1	1	0,05 0,1	± 0,1 0,2	0	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.

KERN Pictograms



Internal adjusting: Quick setting up of the balance's accuracy with internal adjusting weight (motordriven).



Recipe level A: Separate memory for the weight of the tare container and the recipe ingredients (net total).



Suspended weighing: Load support with hook



Adjusting program CAL: For quick setting up of the balance's accuracy. External adjusting weight required.



Recipe level B: Internal memory for complete recipes with name and target value of the recipe RECIPE ingredients. User guidance through display.



on the underside of the balance.

Ready for battery operation. The battery type



Memory: Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.



Recipe level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display. Additional convenient functions, such as barcode and back calculation functions.



Rechargeable battery pack:

is specified for each device.

Rechargeable set.

available.

Battery operation:



Data interface RS-232: To connect the balance to a printer, PC or network.

RS-485 data interface: To connect the balance

tolerance against electromagnetic disturbance.

to a printer, PC or other peripherals. High



Totalising level A: The weights of similar items can be added together and the total can be printed out.



230 V

Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.

Mains adapter: 230V/50Hz in standard version

for EU. On request GB, AUS or USA version



RS 485

USB data interface: To connect the balance to a printer, PC or other peripherals.



SUM

Totalising level C: Internal memory for complete recipes with name and target value of the recipe ingredients. User guidance through display. Additional convenient func-



Strain gauges: Electrical resistor on an elastic deforming body.



Bluetooth data interface: To transfer data from the balance to a printer, PC or other peripherals.



tions, such as barcode and back calculation.



Tuning fork principle: A resonating body is electromagnetically excited, causing it to oscillate.



WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals.



Percentage determination: Determining the deviation in % from the target value (100 %).



Electromagnetic force compensation: Coil inside a permanent magnet. For the most accurate weighings.



Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.



Weighing units: Can be switched to e.g. nonmetric units at the touch of a key. See balance model. Please refer to KERN's website for more



Single cell technology: Advanced version of the force compensation principle with the SC TECH highest level of precision.



Interface for second balance: For direct connection of a second balance.



Weighing with tolerance range: Upper and lower limiting values can be programmed individually for e.g. dosing, sorting and portioning.



Verification possible: The time required for verification is specified in the pictogram.



Network interface: For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter.



Vibration-free weighing: (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value.



DAkkS calibration possible: The time required for DAkkS calibration is shown in days in the pictogram.



GLP/ISO log: The balance displays the weight, date and time, regardless of a printer connec-



Protection against dust and water splashes IPxx: The type of protection is shown in the pictogram. For details see the glossary.



Package shipment: The time required for internal shipping preparations is shown in days in the pictogram.



GLP/ISO log: With weight, date and time. Only with KERN printers, see "Accessories"



ATEX explosion protection: Suitable for use in hazardous industrial environments, in which there is explosion danger. The ATEX marking is specified for each device.



Pallet shipment: The time required for internal shipping preparations is shown in days in the pictogram.



Piece counting: Reference quantities selectable. Display can be switched from piece to



Stainless steel:

The balance is protected against corrosion.



Warrantv: The warranty period is shown in the pictogram.

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 forcemeasurement 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 6 t
- DAkkS calibration of weights in the range of 1 mg 500 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

Your KERN specialist dealer: