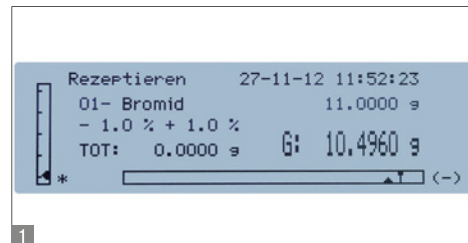


Analytical balance KERN ALT-B



Analytical balance with extensive recipe database

Features

- **Convenient recipe-weighing:** with the recipe database, in which up to 99 recipes can be stored, each with up to 20 recipe ingredients with name and target value
- **Rapid and efficient operation** thanks to the graphic display
- **Simple plain text user guidance in the display**, following languages available: DE, GB, FR, IT, ES, PT
- **Automatic internal adjustment** in the case of a change in temperature $> 1,5\text{ °C}$ and time-controlled every 20 minutes
- **Percentage determination:** parts taken out of a container on the weighplate can be displayed as a percentage. Convenient when carrying out drying processes, during which the evaporated moisture or the remaining weight can be displayed as a percentage

- **Weighing with tolerance range (checkweighing):** Input of an upper/lower limit value. A visual signal assists with portioning, dispensing or grading
- **Vibration-free weighing:** When the weighing conditions are unstable, a stable weight is calculated based on an average value
- **GLP/ISO record keeping** of weight values with date, time and serial number
- **Modern all glass draught wind shield** for ideal visibility of the weighing object

Technical data

- Large backlit LCD display, digit height 15 mm
- Dimensions weighing surface $\text{Ø } 80\text{ mm}$
- Dimensions housing $W \times D \times H 210 \times 340 \times 330\text{ mm}$
- Weighing space $W \times D \times H 160 \times 140 \times 205\text{ mm}$
- Net weight approx. 5,7 kg
- Permissible ambient temperature $5\text{ °C} / 35\text{ °C}$

Accessories

- **Protective working cover**, KERN ALJ-A01
- **Protective dust cover**, KERN ABS-A08
- **Set for density determination** of liquids and solids with density $\leq / \geq 1$, for details see page 161. Step-by-step user guidance and calculated density shown immediately on the display, KERN YDB-03
- **Ioniser** to neutralise electrostatic charge, see page 162, KERN YBI-01
- **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 range, see page 157 ff.

STANDARD



OPTION











































Model	Weighing range [Max] g	Readout [d] mg	Reproducibility mg	Linearity mg	Min. piece weight [Counting] mg/piece	Option	
						DAKKS KERN	DAKKS Calibr. Certificate
ALT 160-4B	160	0,1	0,1	$\pm 0,3$	0,5	↓	963-101
ALT 250-4B	250	0,1	0,1	$\pm 0,3$	0,5	↓	963-101

ONLY WHILE STOCKS LAST

Price reduction

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 on the underside of the balance.
 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 ingredients. User guidance through display.	 Battery operation: Ready for battery operation. The battery type is specified for each device.
 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: Rechargeable set.
 Data interface RS-232: To connect the balance to a printer, PC or network.	 Totalising level A: The weights of similar items can be added together and the total can be printed out.	 Mains adapter: 230V/50Hz in standard version for EU. On request GB, AUS or USA version available.
 RS-485 data interface: To connect the balance to a printer, PC or other peripherals. High tolerance against electromagnetic disturbance.	 Totalising 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.	 Power supply: Integrated in balance. 230V/50Hz standard EU. More standards e.g. GB, AUS or USA on request.
 USB data interface: To connect the balance to a printer, PC or other peripherals.	 Strain gauges: Electrical resistor on an elastic deforming body.	 Tuning fork principle: A resonating body is electromagnetically excited, causing it to oscillate.
 Bluetooth 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.
 WLAN data interface: To transfer data from the balance to a printer, PC or other peripherals.	 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.	 Single cell technology: Advanced version of the force compensation principle with the highest level of precision.
 Control outputs (optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.	 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.
 Interface for second balance: For direct connection of a second balance.	 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.
 Network interface: For connecting the scale to an Ethernet network. With KERN products you can use a universal RS-232/LAN converter.	 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: The balance displays the weight, date and time, regardless of a printer connection.	 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.
 GLP/ISO log: With weight, date and time. Only with KERN printers, see "Accessories"	 Stainless steel: The balance is protected against corrosion.	 Warranty: The warranty period is shown in the pictogram.
 Piece counting: Reference quantities selectable. Display can be switched from piece to weight.		

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.

Your KERN specialist dealer:

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