Analytical balance KERN ABP

Bright OLED display with large viewing angle for the very best readout from a wide range of lines of sight or poor lighting conditions

USB data interfaces and RS-232 for transferring weighing data to the PC, tablet, printer, USB as well as connecting external devices, such as barcode scanner (option), numeric keypad (option) etc.

GLP/ISO record keeping professional and detailed GLP protocol, so that the scale is fully compliant with the relevant standard requirements according to ISO, GLP and GMP

Premium analytical balance with the latest Single-Cell Generation for extremely rapid, stable weighing results

KERN ABP 100-5DM with optional ionizer

NEW: Extremely fast ionization process, thanks to the latest generation of KERN ionization technology to neutralise electrostatic charge for fixed installation in the analytical balance. Particularly convenient handling as you no longer need a separate device. Simply enable the ionizer fan at the push of a button. Suitable for all models
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Features

- This new generation of analytical balances combines the highest level of precision with large weighing capacities. Thanks to the new Single-Cell Generation, the weighing result is displayed in a fraction of the time with comparable models. Together with the intuitively structured menu, this means that you can work efficiently and rapidly.
- Navigation pad for super quick navigation through the menus.
- Automatic internal adjustment in the case of a change in temperature ≥ 1 °C or time-controlled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use. For applications which do not require verification the time interval can be individually adjusted.
- The Minimum weight of sample can be manually stored in the device or automatically calculated. For weighings below this value, the balance issues a warning message.
- 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.
- Individual user settings for up to 10 users can be saved: user name/user number (can be printed out or added to the record for each process), password, menu language, user profiles, accessing user settings via barcode, additional guest mode for users who are not logged in, authorizations, eg. B. balance adjustment, changing settings or conditioning or modification of a recipe only by the authorized person & performing the formulation by the user.
- U.S. FDA 21 Part 11: assists you in data integrity in accordance with U.S. Pat. FDA 21 Part 11 (for example (weighing result, sample ID, user name, scales ID, ...))
- Menu language DE, GB
- 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.
- KERN ABP-DM: Multi-function weighing plate included with delivery, minimises the effect of currents of air in the weighing space and therefore significantly improves the stabilization time and repeatability. In addition, samples, sample paper, PCR containers, micro centrifuge tubes and many other items which protrude can be easily fixed in place and weighed easily.
- Protective working cover included with delivery.

Technical data

- Luminescent OLED display, digit height 14 mm, bright with high contrast, for easy reading of the weight, even in poor lighting conditions
- Dimensions weighing surface Φ 91 mm
- Overall dimensions (incl. draught shield) approx. 250×630×24 mm
- Net weight approx. 8 kg
- Permissible ambient temperature 10 °C/30 °C

Accessories

- Protective working cover, scope of delivery: 5 items, KERN YBA-A06S05
- Set for density determination of liquids and solids with density ≤/≥ 1, the density is indicated directly on the display, KERN YDB-03
- Single-cell advanced technology:
  - Fully automatic manufactured weighing cell from one piece of material
  - Stable temperature behaviour
  - Short stabilisation time: steady weight values within approx. 2 s (models with [d] = 0,1 mg), approx. 8 s (models with [d] = 0,01 mg) under laboratory conditions
  - Shock proof construction
  - High corner load performance

Single-cell advanced technology:

- Equipment qualification: compliant qualification concept which includes the following validation services: Installation Qualification (IQ), Operating Qualification (OQ), KERN 961-231B
- Further details, plenty of further accessories and suitable printers see Accessories

<table>
<thead>
<tr>
<th>Model</th>
<th>Weighing capacity [Max] g</th>
<th>Readability [d] mg</th>
<th>Verification value [a] mg</th>
<th>Minimal load [Min] mg</th>
<th>Reproducibility mg</th>
<th>Linearity mg</th>
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<tbody>
<tr>
<td>ABP 100-4M</td>
<td>120</td>
<td>0,1</td>
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<td>10</td>
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<td>± 0,2</td>
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<td>1</td>
<td>1</td>
<td>0,02</td>
</tr>
</tbody>
</table>

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 – Precision is our business

To ensure the high precision of your balance KERN offers you the appropriate test weights, test weights and force-measuring devices 24 hours a day, 7 days a week.

Thanks to the high level of automation, we can carry out DAkkS calibration of balances, test weights with universal input and optional input socket adapters for A) EU, CH, GB; B) EU, CH, GB, USA; C) EU, CH, GB, USA, AUS

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

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

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

Weighing principle: Single cell technology:
Advanced version of the force compensation principle with the highest level of precision

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

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

Pallet shipment:
The time required for internal shipping preparations is calculated in days

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
- Volume determination and measuring of magnetic susceptibility (magnetic characteristics) for test weights
- Database supported management of checking equipment and reminder service
- Calibration of force-measuring devices
- DAkkS calibration certificates in the following languages DE, GB, FR, IT, ES, NL, PL
- Conformity evaluation and verification of balances and test weights

Your KERN specialist dealer: