

Analytical Balance KERN ABP

PREMIUM
★ ★ ★



2 KERN ABP 100-5DM
with optional ioniser

Premium analytical balance with the latest Single-Cell Generation for extremely rapid, stable weighing results - now also as a version with automatic sliding doors



1 The internal draught shield minimises the effect of currents of air in the weighing chamber and therefore significantly improves the stabilisation time and repeatability



2 Draught shield rear panel with integrated ioniser, which can be fitted in place of the existing glass rear panel of the draught shield. Extremely fast ionization process, thanks to the latest generation of KERN ionization technology to neutralise electrostatic charge



GLP/ISO record keeping: professional, detailed GLP Protocol, so that the balance is completely compliant with the relevant standard requirements in accordance with ISO, GLP and GMP

Analytical Balance KERN ABP

Features

- This new generation of analytical balances combines the highest level of precision with large weighing ranges. 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
- Large glass draught shield with 3 sliding doors for easy access to the items being weighed
- KERN ABP-A: with 3 automatic sliding doors, which can be opened and closed using sensors, and integrated ioniser as standard. Thanks to the Memory Function, the balance stores how far the sliding doors have been opened. This prevents contamination and accelerates processes. Touching the sliding doors "gently" activates the push function and the doors open and shut automatically. The adjustable internal draught shield guarantees maximum stability of the weight readings
- Navigation pad for super quick navigating through the menus
- Automatic internal adjustment in the case of a change in temperature ≥ 1 °C or timecontrolled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- 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 can be stored for up to 10 users: user name/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
- RS 232 data interfaces and USB (device) for transferring weighing data and USB (host) to connect a USB keyboard for easy capture of item numbers, recipes, for easier navigation within the menu etc.
- U.S. FDA 21 Part 11: assists you in data integrity in accordance with U.S. FDA 21 Part 11 (for example weighing result, sample ID, user name, scales ID, ...)
- Menu languages DE, EN
- Automatic data output to the PC/printer each time the balance is steady for models with [d] = 0,0001 g
- Multi-function weighing plate included with delivery, minimises the effect of currents of air in the weighing chamber and therefore significantly improves the stabilisation 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
- ABP 200-5M: Erlenmeyer flask holder included with delivery
- Protective working cover included with delivery

Technical data

- Luminescent OLED display, digit height 12 mm bright with high contrast, for easy reading of the weight, even in poor lighting conditions
- Dimensions weighing surface $\varnothing$ 91 mm, stainless steel
- Weighing space WxDxH 166x156x220 mm
- Overall dimensions WxDxH 220x370x350 mm
- Net weight approx. 8 kg
- Permissible ambient temperature 10 °C/30 °C

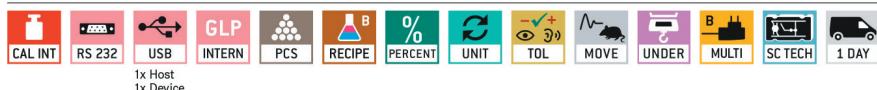
Accessories

- Protective working cover, scope of delivery 5 items, KERN YBA-A06S05, € 44,-
- Set for density determination of liquids and solids with density $\leq/\geq 1$, the density is indicated directly on the display, KERN YDB-03, € 380,-
- **1** Internal draught shield made of glass, KERN ABP-A02, € 165,-
- **2** Draught shield rear panel with integrated ionizer to neutralise electrostatic charge. Is fitted in place of the existing glass rear panel of the draught shield. Suitable for all models in the range, please order at the time you order your balance, the scope of delivery is the rear panel, ionizer, Universal plug-in power supply. Factory Option, KERN ABP-A01, € 1990,-
- USB barcode scanner, hand-held version, dimensions WxDxH 152x84x63 mm, KERN PET-A09, € 300,-
- Minimum weight of sample, smallest weight to be weighed, depending on the required process accuracy, only in combination with a DAkkS calibration certificate, KERN 969-103, € 10,-
- Equipment qualification: compliant qualification concept which includes the following validation services, Installation Qualification (IQ), Operating Qualification (OQ)
- Further details, plenty of further accessories and suitable printers see *Accessories*

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

STANDARD



OPTION



FACTORY



Model	Weighing capacity [Max]	Readability [d]	Verification value [e]	Minimal load [Min]	Reproducibility	Linearity
KERN	g	mg	mg	mg	mg	mg
ABP 100-5M	135	0,01	1	1	0,05	$\pm 0,1$
ABP 200-5M	220	0,01	1	1	0,05	$\pm 0,1$
ABP 100-4M	120	0,1	1	10	0,1	$\pm 0,2$
ABP 200-4M	220	0,1	1	10	0,1	$\pm 0,2$
ABP 300-4M	320	0,1	1	10	0,2	$\pm 0,3$

ABP 100-5DM	52 120	0,01 0,1	1 1	1	0,02 0,1	$\pm 0,05 0,2$
ABP 200-5DM	102 220	0,01 0,1	1 1	1	0,05 0,1	$\pm 0,1 0,2$

Verification

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Options

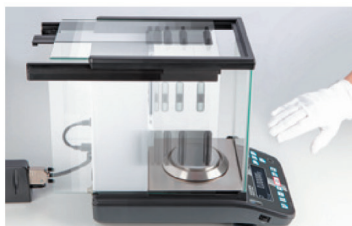
DAkkS Calibr. Certificate

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PREMIUM



Automatic sliding doors, which can be opened and closed using sensors



Ioniser (included) can be activated at the touch of a button



Opening possible alternatively via button



Erlenmeyer piston holder, included as standard with ABP 200-5M and ABP 200-5AM



Internal draft shield – minimises the effect of air currents in the weighing chamber, only for 0.01 mg models of the series ABP-A



KERN ABP-A with integrated ioniser and internal draft shield



Multi-function weighing plate, Note: included with delivery for models with [d] = 0,01 mg

STANDARD



1x Host
1x Device

OPTION



FACTORY



Model	Weighing capacity [Max] g	Readability [d] mg	Verification value [e] mg	Minimal load [Min] mg	Reproducibility mg	Linearity mg
KERN						
ABP 100-5AM	135	0,01	1	1	0,05	± 0,1
ABP 200-5AM	220	0,01	1	1	0,05	± 0,1
ABP 200-4AM	220	0,1	1	10	0,1	± 0,2
ABP 300-4AM	320	0,1	1	10	0,2	± 0,3

ABP 100-5DAM	52 120	0,01 0,1	1 1	1	0,02 0,1	± 0,05 0,2
ABP 200-5DAM	102 220	0,01 0,1	1 1	1	0,05 0,1	± 0,1 0,2

Verification

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Options

DAkKS Calibr. Certificate

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