Analytical balance KERN ABT


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The premium model with single-cell weighing system

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. 5 sec under laboratory conditions
- **Shock proof construction**
- **High corner load performance**

Features

- **Automatic internal adjustment** in the case of a change in temperature > 0,5 °C or time-controlled every 4 hours
- **Dosage aid:** High-stability mode and other filter settings can be selected
- **Simple recipeweighing and documenting** with a combined tare/print function. In addition, the mixing ingredients for the recipe are numbered automatically and printed out with their corresponding number and weight value
- **Identification number:** 4 numeric positions, printed on calibration protocol
- **Automatic data output to the PC/printer** every time the balance is steady

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

Options

- **Protective working cover**, standard, can be reordered, KERN ABT-A02
- 1 **Set for density determination** of liquids and solids. The density is indicated directly on the display, KERN ABT-A01
- 2 **Ioniser** to neutralise electrostatic charge, KERN YBI-01
- 3 **Weighing** table to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-01
- **Matrix needle printer,** KERN 911-013
- 4 **Thermal printer**, KERN YKB-01N

STANDARD: CAL INT, PCS, RS 232, GLP PROTOCOL 4, RECIPE, PERCENT, UNDER, UNIT, 230 V, SC TECH

STANDARD: 1 DAY, 3 YEARS GUARANTY

OPTION: DKD +3 DAYS

FACTORY: M +7 DAYS

Model KERN	Weighing range [Max] g	Read-out [d] mg	Verific. value [e] mg	Minimum load [Min] mg	Repro-ducibility mg	Linea-rity mg		Options Verification MI KERN		DKD Calibr. Certificate DKD KERN	
ABT 120-4M	120	0,1	1	10	0,1	± 0,2		950-101		963-101	
ABT 220-4M	220	0,1	1	10	0,1	± 0,2		950-101		963-101	
ABT 320-4M	320	0,1	1	10	0,1	± 0,3		950-101		963-101	
ABT 100-5M	101	0,01	1	1	0,05	± 0,15		950-101		963-101	
ABT 120-5DM	42 | 120	0,01 | 0,1	1	1	0,02 | 0,1	± 0,05 | ± 0,2		950-101		963-101	
ABT 220-5DM	82 | 220	0,01 | 0,1	1	1	0,05 | 0,1	± 0,1 | ± 0,2		950-101		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.

Price reduction

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KERN Pictograms

CAL INT — **Internal adjusting (CAL):** Quick setting of the balance's accuracy with internal adjusting weight (motordriven).

CAL EXT — **Adjusting program (CAL):** For quick setting of the balance's accuracy. External adjusting weight required.

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.

ACCU — **Rechargeable battery pack:** rechargeable set.

230 V — **Power supply:** integrated in balance. 230V/50Hz in Germany. On request GB, AUS or USA version.

230 V — **Mains adapter:** 230V/50Hz in standard version for Germany. On request GB, AUS or USA version.

BATT — **Battery operation:** The battery type is specified for each device.

PCS — **Piece counting:** Reference quantities selectable. Display can be switched from piece to weight

IP — **Spray and dust protection IPxx** The type of protection is shown by the pictogram. For details see the glossary.

DATA — **Data interface:** The type of interface is shown by the pictogram. See the glossary for further details.

GLP PROTOCOL — **GLP/ISO record keeping** of weighing data with date, time and identification-no. Only with printers from KERN.

0.00 TARE — **Tare:** put back displayed value to "0" during weighing process, e.g. to add or remove weighing material from a container.

MOVE — **Dynamic weighing:** Strong vibrations are filtered out to determine a stable weighing result.

INOX — **Stainless steel:** the balance is protected against corrosion.

3 YEARS GUARANTY — **Warranty:** The warranty period is shown in the pictogram.

RECIPE — **Net-total weighing:** weight of tare cup and weight of components memorized in two separate stores.

UNDER — **Suspended weighing:** load support with hook on the underside of the balance.

M +3 DAYS — **Verification possible:** The time required for verification is specified in the pictogram.

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

TOL — **Weighing with tolerance range:** Upper and lower limiting can be programmed individually, e.g. dosing/sorting.

DKD +3 DAYS — **DKD calibration possible:** The time required for DKD calibration is specified in the pictogram.

DAYS — **Package shipment** via courier.

DAYS — **Pallet shipment** via freight forwarder.

[DMS] For details on weighing technologies, see the glossary.

Precision is our business

To ensure the high level of precision of your balance, KERN offers the appropriate test weight package for your balance. This consists of the test weight, box and DKD calibration certificate, as proof of its accuracy. The best way to ensure proper balance calibration.

In the extensive KERN test weight range, you will find test weights in the international OIML error limit classes: E1, E2, F1, F2, M1, M2, and M3 with weights from 1 mg to 2000 kg.

The KERN DKD calibration laboratory for electronic balances and weights has been accredited by DKD since 1994 and today is one of the most modern and best-equipped DKD calibration laboratories for balances, test weights and force-measurement in Europe.
(DKD = German Calibration Service)

Thanks to the high level of automation, we can carry out DKD calibration of balances, test weights and force-measuring devices 24 hours a day, 7 days a week.

Range of services:

- DKD calibration of balances with a maximum load of up to 6000 kg
- DKD 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
- DKD calibration certificates in the following languages D, GB, F, I, E, NL, PL

Do you have questions about your scale, the corresponsing test weight or the calibration service ? Your KERN specialist dealer will be pleased to assist you.

Your KERN specialist dealer:

KERN – Professional measuring. Measuring technology and testing services from a single source

Quality Management ISO 9001:2008

DKD-K-11801

APPROVAL FOR THE MANUFACTURE OF MEDICAL PRODUCTS EN 13485 and 93/42/EEC

APPROVAL FOR MANUFACTURER'S INITIAL CALIBRATION 2009/23/EEC

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