BALANCES & TEST SERVICE 2024

Analytical balances

Analytical Balance KERN ABP



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











PREMIUM ★★★

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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 Ø 91 mm, stainless steel
- Weighing space W×D×H 166×156×220 mm
- Overall dimensions W×D×H 220×370×350 mm
- Net weight approx. 8 kg
- + Permissible ambient temperature 10 $^{\circ}\text{C}/30$ $^{\circ}\text{C}$

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
- Internal draught shield made of glass, KERN ABP-A02
- 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
- USB barcode scanner, hand-held version, dimensions W×D×H 152×84×63 mm, KERN PET-A09
- 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
- 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
CAL INT RS 232	USB	GLP INTERN	PCS	% Percent	−√+ ⊙ ৢ৽ TOL	MOVE	UNDER	SC TECH	1 DAY	DAkkS +3 DAYS	H3 DAYS
	1x Host 1x Device										

Model	Weighing	Readability	Verification	Minimal	Repro-	Linearity	Options			
	capacity		value	load	ducibility		Verification	DAkkS Calibr. Certificate		
	[Max]	[d]	[e]	[Min]			M	DAkkS		
KERN	g	mg	mg	mg	mg	mg	KERN	KERN		
ABP 100-5M	135	0,01	1	1	0,05	± 0,1	965-201	963-101		
ABP 200-5M	220	0,01	1	1	0,05	± 0,1	965-201	963-101		
ABP 100-4M	120	0,1	1	10	0,1	± 0,2	965-201	963-101		
ABP 200-4M	220	0,1	1	10	0,1	± 0,2	965-201	963-101		
ABP 300-4M	320	0,1	1	10	0,2	± 0,3	965-201	963-101		
		Multi-	division balanc	e, with incre	easing or dec	reasing load, it s	witches automatically			
			to the next la	rgest or sm	allest weighin	g range [Max] ar	id readout [d].			
ABP 100-5DM	52 120	0,01 0,1	1 1	1	0,02 0,1	± 0,05 0,2	965-201	963-101		
ABP 200-5DM	102 220	0,01 0,1	1 1	1	0,05 0,1	± 0,1 0,2	965-201	963-101		

Note: For devices that require verification (conformity assessment according to NAWI 2014/31/EU), please include the verification when placing your order. The initial verification is not possible after delivery. Please inform the full address of the location of use for the initial verification.



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Interface for second

second balance

Protocol (KCP)

It is a standardized

Network interface

an Ethernet network

KERN Communication

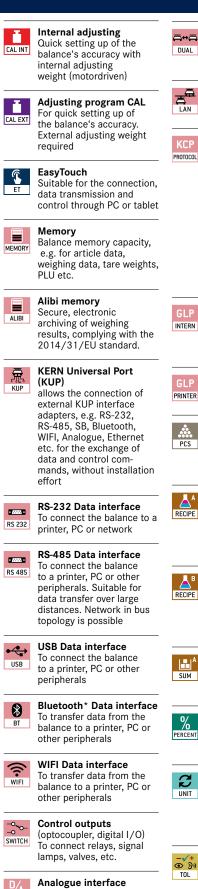
interface command set for

For direct connection of a

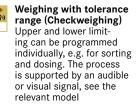
For connecting the scale to

balance

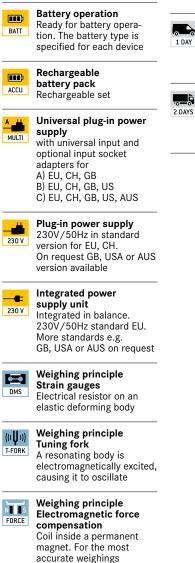
KERN Pictograms

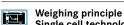












Single cell technology Advanced version of the force compensation principle with the highest level of precision

Conformity Assessment Μ The time required for +3 DAYS conformity assessment is specified in the pictogram

DAkkS calibration DAkkS

possible (DKD) The time required for DAkkS calibration is shown in days in the pictogram



+3 DAYS

Factory calibration (ISO) The time required for Factory calibration is shown in days 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 2 DAYS internal shipping preparations is shown in days in the pictogram

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ANALOG

to connect a suitable

peripheral device for analogue processing of the measurements