BALANCES & TEST SERVICE 2023

ANALYTICAL BALANCES

Analytical balance KERN ABP-A - Features & accessories of the new models



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



Opening possible alternatively via button



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





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



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



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

STANDARD	OPTION FACTOR	٩Y		
🚺 🚥 🚓 GLP	🚵 🔼 🔏 📿	<mark>-√+</mark> ^- → 🗾 💾	🖭 🌨 dakks M	
CAL INT RS 232 USB INTERN	PCS RECIPE PERCENT UNIT	TOL MOVE UNDER MULTI	SC TECH 1 DAY +3 DAYS +3 DAYS	S
1x Host 1x Device				

	1x Device									
Model		Weighing capacity	Readability	Verification value	Minimal load	Reproduci- bility	Linearity	Verification	Option DAkkS Calibr. Certificate	
		[Max]	[d]	[e]	[Min]			MD	DAkkS	
KERN		g	mg	mg	mg	mg	mg	KERN	KERN	
ABP 100-5AM	NEW	135	0,01	1	1	0,05	± 0,2	965-201	963-101	
ABP 200-5AN	NEW	220	0,01	1	1	0,05	± 0,2	965-201	963-101	
ABP 200-4AN	NEW	220	0,1	1	10	0,1	± 0,2	965-201	963-101	
ABP 300-4AN	NEW	320	0,1	1	10	0,2	± 0,3	965-201	963-101	
Multi-division balance, with increasing or decreasing load, it switches automatically to the next largest or smallest weighing range [Max] and readout [d].										
ABP 100-5DA	M NEW	52 120	0,01 0,1	1 1	1	0,02 0,1	± 0,05 0,2	965-201	963-101	
ABP 200-5DA	M NEW	102 220	0,01 0,1	1 1	1	0,05 0,1	± 0,1 0,2	965-201	963-101	
Note: For applications that require verification, please order verification at the same time, initial verification at a later date is not possible.										

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KERN ABP-A with integrated ioniser and

internal draft shield

Verification at the factory, we need to know the full address of the location of use.

New model

BALANCES & TEST SERVICE 2023

KERN PICTOGRAMS





Internal adjusting:

Quick setting up of the balance's accuracy with internal adjusting weight (motordriven)



Adjusting program CAL:

For quick setting up of the balance's accuracy. External adjusting weight required



Easy Touch:

Suitable for the connection, data transmission and control through PC or tablet.



Memory:

Balance memory capacity, e.g. for article data, weighing data, tare weights, PLU etc.



Alibi memory:

Secure, electronic archiving of weighing results, complying with the 2014/31/EU standard.



• 888. •

RS 232

• 1998. •

RS 485

KERN Universal Port (KUP):

allows the connection of external KUP PCS interface adapters, e.g. RS-232, RS-485, SB, Bluetooth, WLAN, Analogue, Ethernet etc. for the exchange of data and control commands, without installation effort

Data interface RS-232:

To connect the balance to a printer, PC or network



To connect the balance to a printer, PC or other peripherals. Suitable for data transfer over large distances. Network in bus topology is possible

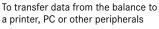
USB data interface:

To connect the balance to a printer, PC or other peripherals



USB

Bluetooth* data interface:





WiFi data interface:

To transfer data from the balance to a printer, PC or other peripherals

Control outputs _0^0_ SWITCH

(optocoupler, digital I/O): To connect relays, signal lamps, valves, etc.



Analogue interface:

to connect a suitable peripheral device for analogue processing of the measurements



Interface for second balance:

license. Other trademarks and trade names are those of their respective owner

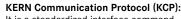
For direct connection of a second balance



KCP

Network interface: For connecting the scale to an

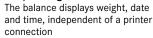
Ethernet network



It is a standardized interface command PROTOCOL set for KERN balances and other instruments, which allows retrieving and controlling all relevant parameters and functions of the device. KERN devices featuring KCP are thus easily integrated with computers, industrial controllers and other digital systems







GLP/ISO log: GLP

With weight, date and time. Only with KERN printers.



PRINTER

Reference quantities selectable. Display can be switched from piece to weight

Recipe level A:

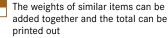
The weights of the recipe ingredients can be added together and the total weight of the recipe can be printed out



Internal memory for complete recipes RECIPE with name and target value of the recipe ingredients. User guidance through display



Totalising level A:



Determining the deviation in % from

Percentage determination:

the target value (100 %)

%

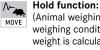
B

Weighing units: Can be switched to e.g. nonmetric UNIT units. See balance model. Please refer to KERN's website for more details



Weighing with tolerance range: (Checkweighing) Upper and lower limiting can be programmed individually, e.g. for sorting and dosing. The process is supported by an audible or visual signal, see the relevant model

Hold function:



(Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value



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Protection against dust and water splashes IPxx:

The type of protection is shown in the pictogram.

Suspended weighing: Load support with hook on the UNDER

Battery operation:

underside of the balance

Ready for battery operation. The battery BATT type is specified for each device



Rechargeable battery pack: Rechargeable set



Universal plug-in power supply: with universal input and optional input socket adapters for A) EU, CH, GB

B) EU, CH, GB, USA C) EU, CH, GB, USA, AUS

Plug-in power supply:

230V/50Hz in standard version for EU, CH. 230 V On request GB, USA or AUS version available



Integrated power supply unit: Integrated in balance. 230V/50Hz standard EU. More standards e.g.

GB, USA or AUS on request



Weighing principle: Strain gauges Electrical resistor on an elastic deforming body



Weighing principle: Tuning fork A resonating body is electromagnetically excited, causing it to oscillate



Weighing principle: Electromagnetic force compensation

Coil inside a permanent magnet. For the most accurate weighings

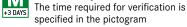


Weighing principle: Single cell technology:

Advanced version of the force compensation principle with the highest level of precision



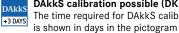
Verification possible:



Factory calibration (ISO):

Package shipment:

Pallet shipment:



ISO

1 DAY

2 DAYS

DAkkS calibration possible (DKD): The time required for DAkkS calibration

The time required for Factory calibration

The time required for internal shipping prepa-

The time required for internal shipping prepa-

rations is shown in days in the pictogram

rations is shown in days in the pictogram

is shown in days in the pictogram