BALANCES & TEST SERVICE 2024

Analytical balances

Analytical Balance KERN ABT-NM



The premium model with single-cell weighing system

Features

STANDARD

- Automatic internal adjustment in the case of a change in temperature ≥ 0,5 °C or timecontrolled every 4 h, guarantees high degree of accuracy and makes the balance independent of its location of use
- 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
- Identification number: 4 digits, printed on calibration protocol freely programmable
- Printout of a GLP-compliant calibration report
 conveniently at the touch of a button
- 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.
- Protective working cover included with delivery

Technical data

- Large LCD display, digit height 14 mm
- Dimensions weighing surface Ø 80 mm, stainless steel
- Weighing space W×D×H 168×172×223 mm
- Overall dimensions W×D×H 217×356×338 mm
- Net weight approx. 7 kg
- Permissible ambient temperature 10 °C/30 °C









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. 4 s (models with [d] = 0,1 mg), approx. 10 s (models with [d] = 0,01 mg) under laboratory conditions
- Shock proof construction
- High corner load performance

Accessories

- Protective working cover, scope of delivery 5 items, KERN ABT-A02S05
- ■ Set for density determination of liquids and solids with density ≤/≥ 1, the density is indicated directly on the display, KERN YDB-03
- Ioniser to neutralise electrostatic charge, KERN YBI-01A
- Weighing table to absorb vibrations and oscillations, which would otherwise distort the weighing result, KERN YPS-03
- 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*

CALINT RS 232 INTER	PCS RECIPE	% PERCENT		SC TECH 1 DAY	DAkkS +3 DAYS	H +3 DAYS
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Model	Weighing	Readability	Verification	Minimal	Repro-	Linearity		Options		
	capacity		value	load	ducibility		Verification	DAkkS Calibr. Certificate		
	[Max]	[d]	[e]	[Min]			MI	DAkkS		
KERN	g	mg	mg	mg	mg	mg	KERN	KERN		
ABT 100-5NM	101	0,01	1	1	0,05	± 0,15	965-201	963-101		
ABT 120-4NM	120	0,1	1	10	0,1	± 0,2	965-201	963-101		
ABT 220-4NM	220	0,1	1	10	0,1	± 0,2	965-201	963-101		
ABT 320-4NM	320	0,1	1	10	0,1	± 0,3	965-201	963-101		
	Multi-range balance, with increasing load it switches automatically to the next largest weighing range [Max] and readout [d]									
and when the load is fully removed, the balance switches back to the lower range										
ABT 120-5DNM	42 120	0,01 0,1	1 1	1	0,02 0,1	± 0,05 0,2	965-201	963-101		
ABT 220-5DNM	82 220	0,01 0,1	1 1	1	0,05 0,1	± 0,1 0,2	965-201	963-101		

OPTION

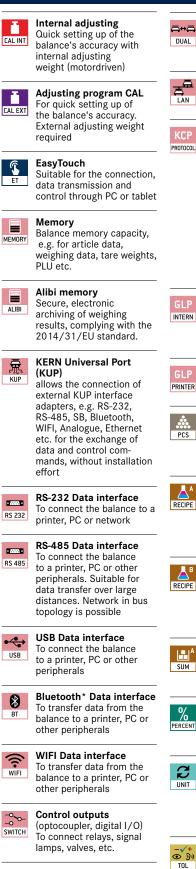
FACTORY

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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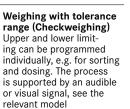
KERN Pictograms





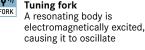
Analogue interface to connect a suitable peripheral device for analogue processing of the measurements





Hold function (Animal weighing program) When the weighing conditions are unstable, a stable weight is calculated as an average value Protection against dust and water splashes IPxx The type of protection is shown in the pictogram Suspended weighing Load support with hook on the underside of the balance **Battery operation** Ready for battery operation. The battery 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, US C) EU, CH, GB, US, AUS Plug-in power supply 230V/50Hz in standard version for EU, CH. 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

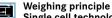
Weighing principle





Weighing principle Electromagnetic force compensation

Coil inside a permanent magnet. For the most accurate weighings



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



1 DAY

+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

, È The time required for 2 DAYS internal shipping preparations is shown in days in the pictogram

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