BALANCES & TEST SERVICE 2024

Moisture Analyser

Moisture Analyser KERN DBS



Moisture analyser with high-quality single-cell weighing system for outstanding stability, reliability and response speed

Features

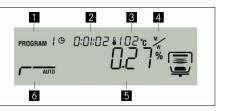
- Tip: Suitable for samples with low moisture content, e.g. plastics
- Backlit graphic display, digit height 15 mm
- Active drying process
- **2** Previous drying time
- Current temperature
- 4 Unit for displaying the results

5 Current moisture content in %6 Active heating profile

- · 400 W halogen-quartz glass heater
- Excellent temperature control thanks to halogen technology, suitable for temperaturesensitive samples
- Internal memory for automatic sequence of 10 complete drying processes and 100 drying processes carried out

STANDARD									OPTION	
			•	GLP	C	 E	N S		.	DAkkS
CAL EXT	MEMORY	RS 232	USB	INTERN	UNIT	230 V	FORCE	SC TECH	1 DAY	+3 DAYS

KERN	DBS 60-3					
Readability [d] Weight/Moisture (%)	0,001 g / 0,01%					
Weighing capacity [Max]	60 g					
Reproducibility weight of sample 2 g*	0,15%					
Reproducibility weight of sample 10 g*	0,02%					
Display after drying						
Moisture [%] = Moisture content (M) from wet weight (W)	0 - 100 %					
Dry content [%] = Dry weight (D) from W	100 - 0 %					
ATRO [%] [(W-D) : D] · 100 %	0 - 999 %					
Moisture content (M)	Absolute value in [g]					
Temperature range (in steps up to)	50 °C - 200 °C (1 °C)					
Drying modes	J → Standard drying J → Drying in levels J → Gentle drying J → Rapid drying					
Switch-off criteria	 Automatic unrestricted switch-off (Selectable loss in weight 0,01% - 0,1% in 30 s) Time controlled switch-off (1 min - 12 h) Manual switch-off at the press of a button 					
Recall of measurement/ Log output	Interval can be set from 1 s - 10 min (Only when used with printer or PC)					
Overall dimensions W×D×H	204×336×167 mm					
Net weight	4,6 kg					
Price excl. of VAT ex works €						
Option DAkkS Calibr. Certificate Mass	KERN 963-127					
Option Factory Calibr. Certificate Temperature	KERN 964-305					
* application dependent						





- The last value measured remains on the display until it is replaced by a new measurement
- Password protection to prevent manipulation of stored settings, data, etc.
- Sample description for up to 99 samples,
 2 digits, freely programmable, and is printed in the measuring protocol
- Date and time display as standard
- USB data interface for transferring weighing data to the PC, printer etc.
- 10 sample plates included
- · Protective working cover included with delivery
- Application handbook: In the download centre you will find a practical application handbook containing many examples, field reports, settings and tips for each KERN moisture analyser

Accessories

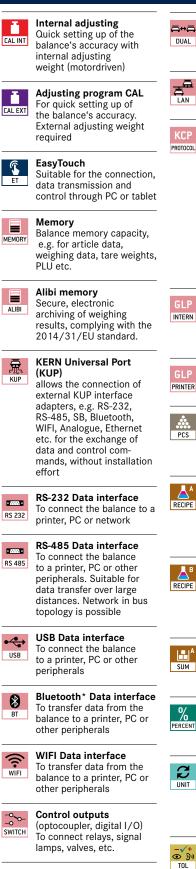
- Protective working cover, scope of delivery 5 items, KERN DBS-A03S05
- Sample plates aluminium, Ø 90 mm, unit of 80 pieces, KERN MLB-A01A
- Round fiberglass filter, medium mechanical stability, without organic binder, box of 100 pieces, KERN RH-A02
- Temperature calibration set consists of measuring sensor and display device, KERN DBS-A01.
- USB 2.0 cable, KERN DBS-A04
- Software BalanceConnection, for flexible recording or transmission of measured values, in particular also to Microsoft® Excel or Access as well as transfer of this data to other Apps and programs, Scope of supplies: Download link for 1 license, KERN SCD-4.0-DL
- Thermal printer, KERN YKB-01N
- Matrix needle printer, to print the weights on normal paper, ideal for long-term archiving, KERN 911-013
- Affordable universal label printer to print out weights on thermal labels. ASCII-capable.
 Convenient Auto-Forward function to automatically jump from label to label (only with KERN standard labels), KERN YKE-01

* application-dependent



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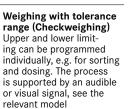
KERN Pictograms





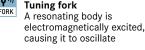
Analogue interface to connect a suitable peripheral device for analogue processing of the measurements





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

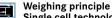
Weighing principle





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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