

Moisture analyser KERN MRS



04

Perfect drying with sample weight up to 124 g and many practical functions



	MRS 120-3
Readout [d]	0,001 g / 0,01 %
Weighing range [Max]	124 g
Reproducibility, weight of sample 2 g	0,2 %
Reproducibility, weight of sample 10 g	0,02 %
Display after drying (Display can be switched over at any time)	
Moisture [%] = Weight loss (WL) from SW (startweight)	0 - 100 %
Dry mass [%] = Residual weight (RW) from SW	100 - 0 %
ATRO [%] (SG : RG) · 100%	100 - 999 %
ATRO [%] [(SG-RG) : RG] · 100%	0 - 999 %
Weight loss [g] (WL)	Absolute value in [g]
Residual weight [g]	Absolute value in [g]
Temperature range	30° - 230°C in steps up to 1°C
Drying modes	<ul style="list-style-type: none"> • Standard drying • Gentle drying • Pre-heat level, can be switched on
Switch off criteria	<ul style="list-style-type: none"> • When the set time has expired (0,1 - 240 min) • When constant weight has been achieved • When loss in weight per unit of time falls below the target value, both values can be adjusted ([g/min] or [%/min])
Overall dimensions WxDxH	210x340x170 mm
Net weight	approx. 6.3 kg
























Features

- Halogenquartz glass heater 400 W
- Observation window over the sample, useful during initial adjustment
- The last value measured remains on the display until it is replaced by a new measurement
- 4 displays for results in % or g, heating mode, temperature and time
- Measurement recall. Interval adjustment of 0,1 - 10 min with automatic number sampling. Only in combination with YKB-01 or PC
- 2 30 sample plates included
- Memory for automatic sequence of 20 complete drying processes
- Net weighing assistance to a defined target value [g] with adjustable tolerance range
- Internal clock for date and time as standard
- Simple „step-by-step“ user guidance in the display in the following languages: German, English, French

Options

- 2 Sample plates aluminium, Ø 92 mm. Unit of 80 pieces, **KERN MLB-A01**
- Round fiberglass filter e.g. for samples that splash or become encrusted. Unit of 80 pieces, **KERN RH-A02**
- 1 Temperature calibration set consists of measuring sensor and display device, **KERN MRS-A01**
- Protective working cover standard, can be reordered, **KERN PR-A25**
- 3 Standard printer, **KERN YKB-01N**

KERN Pictograms

 Internal adjusting (CAL): Quick setting of the balance's accuracy with internal adjusting weight (motordriven).	 Adjusting program (CAL): For quick setting of the balance's accuracy. External adjusting weight required.	 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.
 Rechargeable battery pack: rechargeable set.	 Power supply: integrated in balance. 230V/50Hz in Germany. On request GB or USA version.	 Mains adapter: 230V/50Hz in standard version for Germany. On request GB or USA version.
 Battery operation: The battery type is specified for each device.	 Piece counting: Reference quantities selectable. Display can be switched from piece to weight	 Spray and dust protection IPxx The type of protection is shown by the pictogram. For details see the glossary.
 Data interface: The type of interface is shown by the pictogram. See the glossary for further details.	 GLP/ISO record keeping of weighing data with date, time and identification-no. Only with printers from KERN.	 Tare: put back displayed value to "0" during weighing process, e.g. to add or remove weighing material from a container.
 Animal weighing program: Strong vibrations are filtered out to determine a stable weighing result.	 Stainless steel: the balance is protected against corrosion.	 Warranty: The warranty period is shown in the pictogram.
 Net-total weighing: weight of tare cup and weight of components memorized in two separate stores.	 Suspended weighing: load support with hook on the underside of the balance.	 Verification possible. The time required for verification is specified in the pictogram.
 Percentage determination: Displays the deviation from the reference weight (100%) in % instead of grams.	 Weighing with tolerance range: Upper and lower limiting can be programmed individually, e.g. dosing/sorting.	 DKD calibration possible. The time required for DKD calibration is specified in the pictogram.
 Package shipment via courier.	 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 6 t
- 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 corresponding 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



German Excellence Group
Member