



Standard



Adjusting program (CAL): For quick setting of the balance's accuracy. External adjusting weight required.



Data interface: The type of interface is shown by the pictogram. For a definition, see page 85.



GLP/ISO record keeping of weighing data with date, time and ident.-no. Only with printers from KERN, see page 85.



Power supply: integrated in balance. 230V/50Hz in Germany. On request GB, AUS or USA version.

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Moisture analyzer with 99 memory possibilities and graphic display

KERN MLS
Moisture analyzer

- Delivery 1 day
- 3 Years warranty
- Force compensation



10 sample plates included

Sample plates made of aluminium, Ø 92 mm. Pack of 80, **KERN MLB-A01**

Round fiberglass filters, e.g. for samples that splash or become encrusted. Pack of 80, **KERN RH-A02**

AUTO temperature calibration set with automatic adjustment function using RS 232 C, **KERN MLS-A01**

Standard printer KERN YKB-01
For all printers see page 85

Protective working cover standard. Can be reordered, **KERN ALS-A02**

Table of applications
There are many practical examples in the operating instructions



2 variants available:

Halogen quartz glass heater
KERN MLS 50-3HA...

Infrared heater
KERN MLS 50-3IR160

STANDARD



The last value measured remains on the display, until it is overwritten by a new value

- LCD graphic display, backlit**
- 1 Moisture display in %
 - 2 Current moisture content in %
 - 3 Printer interval 30 sec
 - 4 Printout in moisture %
 - 5 Switch off mode
 - 6 Type of drying Standard
 - 7 Previous drying time
 - 8 Status bar
 - 9 Current temperature
 - 10 Type of drying Standard
 - 11 Target temperature
 - 12 Drying process active



Technical data for all models

Readout	d	0.001 g or 0.01 %
Weighing range	Max = maximum weight of sample	50 g
Reproducibility on net weighing 2 g		0.5 %
Reproducibility on net weighing 10 g		0.02 %

Display after drying * SG = Starting weight [g]

Moisture [%] = weight loss (GV) from SG*	0 - 100 %
Dry mass [%] = residual weight (RG) from SG*	100 - 0 %
ATRO [%] [(SG - RG) : RG] · 100%	0 - 999 %
Residual weight [g] [(RG)	Absolute value in [g]
Display can be switched at any time	

Heating/temperature setting in steps up to 1 °C

- Standard drying
- Drying in levels
- Gentle drying
- Pre-heat level

Heater type halogen: Temperature range 50° - 160 °C:	KERN MLS 50-3HA160
Heater type halogen: Temperature range 50° - 250 °C:	KERN MLS 50-3HA250
Heater type infrared: Temperature range 50° - 160 °C:	KERN MLS 50-3IR160

Switch off criteria

When the set time has expired	1 min - 9 h 59 min
When the weight loss per time unit is less than the target - value, both values can be adjusted	mg/sec

Recall of measurement

Interval can be set from 1 sec - 5 min
Only when used with printer KERN YKB-01 or PC

Enhanced functions

- Balance internal memory for the automatic processing of 99 complete drying processes. 12 free digits for each memory
- Net weighing assistance to a defined target value [g] with adjustable tolerance range 1% - 25% of the target value
- Simple "step-by-step" user guidance in the display in the following languages German, English, French, Italian, Spanish, Polish
- Can be connected to PC keyboard

Overall dimensions WxDxH 210x335x156 mm. Net weight approx. 6.3 kg.

KERN - Your DKD-Calibration Partner

issues DKD calibration certificates for balances and test weights in its own accredited laboratories. It is internationally valid.

KERN is a manufacturer of test weights in the international classes of accuracy **E1, E2, F1, F2, M1, M2, M3, from 1 mg up to 2000 kg**
DKD = German Calibration Service



Your KERN specialist dealer