



Standard

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

PC IT-Net **Data interface:** The type of interface is shown by the pictogram. For a definition, see page 88.

GLP **GLP/ISO record keeping** of weighing data with date, time and ident.-no. Only with printers from KERN, see page 88.

230 V **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 graphics display

KERN MLS
Moisture analyzer

Delivery 1 day

3 Years Warranty

New models

2 variants available:

Halogen quartz glass heater
2 x 500 W for models
KERN MLS 50-3HA...

Infrared heater
2 x 500 W for model
KERN MLS 50-3IR160

STANDARD



10 sample plates included

Sample plates
made of aluminium, Ø 92 mm.
Pack of 80,
KERN MLB-A01, € 25,-

Round fiberglass filters, e.g. for samples that splash or become encrusted. Pack of 100,
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 88

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

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

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.

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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

