

RESISTIVE MATERIAL-MOISTURE
MEASURING DEVICE

FUNKTIONEN:



HIGHLIGHTS:

- 494 characteristic curves
- incl. calibration protocol

FOR WOOD AND
BUILDING MATERIALS

GMH 3810

Product-ID: 600350

Resistive material-moisture measuring device with integrated measuring pins

General:

The measuring pins integrated on the reinforced front numerous measurements can be done without additional accessories.

For measuring of very hard materials we suggest the components shown at the accessories section.

Specifications:

Measuring principle:

moisture: resistive material-moisture-measuring according to DIN EN 13183-2:2002

temperature internal: NTC

Curves: 494 material characteristics

Measuring range:

moisture: 0.0 ... 100.0 % moisture content
0.0 ... 50.0 % water content
(depending on characteristic curve)

temperature: -25.0 ... +50.0 °C
(-13.0 ... +122.0 °F)

Estimation: in 9 steps (dry ... wet)

Resolution: 0.1 % resp. 0.1 °C (0.1 °F)

Accuracy device: (at nominal temperature = 25 °C)

wood: ±0.2 % moisture content
(deviation from characteristic curve at range 6 ... 30 %)

building material: ±0.2 % moisture content
(deviation from characteristic curve)

Temperature compensation: automatically or manual

Measuring probe: 2 pin holders M6 x 0.75 with 19 mm pins (12 mm utilisable)

Perm. working temperature: 0 ... 50 °C (not frozen)

Storage temperature: -25 ... +70 °C

Rel. humidity: 0 ... 95 % RH (non-condensing)

Display: two 4-digit LCDs

Sort: the material selection is restricted to up to 8 favorites

Power supply: 9 V battery

Power consumption: approx. 2.5 mA

Housing: Impact-resistant ABS plastic housing, membrane keyboard, transparent panel. Front side IP65, integrated pop-up clip

Dimensions: 142 x 71 x 26 mm (H x W x D)

Weight: 175 g

Scope of supply: Device, battery, manual

Accessories and spare parts:

GST 3810

Product-ID: 601392
replacement pins (10 pcs.)

GMK 3810

Product-ID: 603070
1 m connection cable with 2 x banana plugs and 2 adapters. Allows connection of accessories (except GSF38..., GTF38 and GES38) on GMH3810 / GMR110.



RESISTIVE MATERIAL-MOISTURE MEASURING DEVICE



FUNKTIONEN:

AUTOMATIC TEMPERATURE
COMPENSATIONCOMFORTABLE CHARACTERISTIC
CURVE- AND RATED DISPLAYrear side of
device

GMR 110

Product-ID: 600101

Resistive material moisture measuring device with integrated measuring needles.

General:

Compact and robust measuring device for fast evaluation of material moisture in firewood, timber, flake board, inlay, plaster, cement and lots more. A suitable characteristic is selected with help of material table on the rear side of the device before measuring. The material is contacted by pressing the measuring needles into it. The measured value is displayed only a short time afterwards. The device is especially designed for precise firewood and timber measurements, however, a lot of additional building materials can be rated.

- Material tables on rear side of device
- Integrated, exchangeable measuring needles
- Moisture rating (wet/dry) via bar graph
- Display of material moisture or water content
- Integrated temperature compensation
- Characteristic curve display

Specifications:

Measuring principle: resistive material moisture measurement acc. to DIN EN 13183

Characteristic curves: 3 different wood groups (h.01, h.02, h.03) for a total of 130 wood types and 8 different building material curves (c.01, c.02, c.03, c.04, c.05, c.06, c.07, c.08)

Measuring range: 0.0 ... 100 % material moisture (depends on selected characteristics)

Moisture rating: in 6 steps (wet ... dry)

Resolution: 0.1 % (<20 %), 1 % (>20 %)

Accuracy: (at nominal temperature = 25 °C)

wood: ±0.2 % material moisture
(Deviation to wood characteristic curve in range 6 ... 20 %)

building materials: ±0.2 % material moisture
(Deviation to corresponding characteristic curve)

Temperature compensation: automatically or manual

Measuring probe: 2 needle holder M6 x 0.75 with 19 mm measuring needles (12 mm usable length)

Perm. working temperature: -5 ... +50 °C (not frozen)

Storage temperature: -25 ... +70 °C

Rel. humidity: 0 ... 95 % RH (non condensing)

Display: 2 LCD displays for characteristic and measuring value

Power supply: 9 V battery

Current consumption: approx. 1.8 mA

Housing:

Impact-resistant ABS plastic housing, membrane keyboard, transparent panel. Front side IP65

Dimensions:

110 x 67 x 30 mm + needles
26 mm

Weight:

approx. 155 g

Scope of supply:

device, 2 needle protection caps, battery, manual

Characteristic curves:

3 wood groups:

- h.01 spruce, pine
- h.02 maple, birch, beech, larch (EUR), ash (EUR), fir
- h.03 oak, ash (AM), poplar, douglas fir

a lot of additional wood types can be determined with the table of the instruction manual

8 building material curves:

- c.01 cement screed, concrete
- c.02 anhydrite screed
- c.03 plaster, lime mortar
- c.04 cement mortar
- c.05 gas concrete
- c.06 lime sand brick
- c.07 clay brick
- c.08 gypsum plaster

Accessories and spare parts:

GST 3810

Product-ID: 601392
replacement pins (10 pcs.)

GMK 3810

Product-ID: 603070
1 m connection cable with 2 x banana plugs and 2 adapters. Allows connection of accessories (except GSF38..., GTF38 and GES38) on GMH3810 / GMR110.

additional special accessories at page 35.

GB 9 V

Product-ID: 601115
spare battery

GKK 252

Product-ID: 601056
case (235 x 185 x 48 mm) with foam lining