Precision material moisture measuring device for wood, building materials, straw, hay, paper, textiles, etc.



STANDARD FUNCTIONS:











HIGHLIGHTS:

- Moisture rating
- Display in material moisture u or water content w
- Connection of external temperature probes
- serial interface or analog output 0-1 V, freely scalable
- 4 programmable characteristics (GMH 3851)
- incl. calibration protocol

ADDITIONAL FUNCTIONS GMH 3851:



GMH 3830

Product-ID: 600347

Resistive material moisture and temperature measuring device, w/o accessories

GMH 3851

Product-ID: 602009

Resistive material moisture and temperature measuring device, w/o accessories, with data logger and programmable characteristic curves memory

The GMH 3830 and GMH 3851 offer decisive advantages in handling, user-friendliness, functional range and accuracy. The absolute moisture of 494 material types is displayed directly and can be automatically converted to water content. The cumbersome usage of calculation tables becomes a thing of the past. Additionally you get a moisture rating (wet ... dry) of the measured material.

Application:

Precision measurements in cut-wood, chip board, veneer, sawdust, wood chips, wood wool, flax, straw, hay, concrete, gas concrete, bricks, wash floor, cast, limestone mortar, cement mortar, paper, carton, textiles etc.

architect, expert, inspector, building contractor, painter, carpenter, parquet joiner, floor tiler, wood works, timber desiccation plant, building repair company, textile industry etc.

Specifications: Measuring principle: Moisture: Resistive material moisture measurement acc. to DIN EN 13183-2:2002 Temperature: external: thermocouple, NiCr-Ni (type K) internal: NTC

Kennlinien: 494 material characteristics

Measuring range:

Moisture: 0.0 100 % u (material moisture) 0.0 ... 50 % w (water content, wet basis) (depends on selected characteristic)

Temperature: -40.0 ... +200.0 °C (-40.0 ... +392.0 °F)

9 steps (dry ... wet) Moisture rating: 0.1 % or 0.1 °C (0.1 °F) Resolution:

Device accuracy: (at nominal temperature)

±0.2 % material moisture (deviation from corresponding

characteristic curve in range 6 ... 30 %)

Building material: ±0.2 % material moisture

(deviation from corresponding characteristic curve)

(external) \pm 0.2 % of m.v. \pm 0.3 °C Temperature:

Temperature compensation: automatic or manual

Sensor connection:	
Moisture:	BNC
Temperature:	thermovoltage-free type K (NiCr-Ni) socket
Perm. working temperature:	-25 50 °C
Display:	two 4-digit LCD displays (12.4 mm and 7 mm high), additional indicator arrows
Output:	3-pole jack connector Ø 3.5 mm, either with serial interface or analog output
Serial interface:	connectable to RS232 or USB interface of PCs via electrically isolated interface converter GRS 3100, GRS 3105 or USB 3100 N (accessories).
Analog output:	0 - 1 V, freely scalable
Power supply:	9 V battery, additional socket for external 10.5-12 V direct current power supply (adequate PSU: GNG10/3000).
Power consumption:	approx. 2.5 mA
Housing:	impact-resistant ABS, front side IP65, integrated pop-up clip for table top or suspended use.
Dimensions:	142 x 71 x 26 mm (H x W x D)
Weight:	155 g
Scope of supply:	Device, battery, manual

additional functions of GMH 3851:

User specific characteristics: 4, freely programmable

Interpolation points per curve: approx. 20

By means of the gratis software GMHKonfig the interpolation points can be comfortably edited and stored to the instrument. (Required accessories: interface converter)

Average value of 3 measurements, e.g. for professional firewood moisture measurements

Accessories and spare parts:

GSOFT 3050

Logger operation software

GRS 3100

RS232 interface converter

USB 3100 N

Interface converter

additional accessories: see next page