Measuring material moisture

with data logger and user programmable material curves



Resistive material-moisture meas. device

GMH 3850

with data logger

This instrument is indispensable for the documentation of material state by quality assurance systems.

By means of the integrated data logger there can be recorded up to 10000 measuring values and processed on demand. Additionally there can be 4 material curves individually programmed by the user to data acquired by reference measurings with dry ovens or CM-method.

This instruments finally makes the usage of paper correction tables and so on obsolete.

Specification:

Measuring principle:

moisture: resistive material-moisture-measuring matching DIN EN 13183-2:2002

temperature external: thermocouple, NiCr-Ni (type K) temperature internal: NTC

Characteristic curves: 498

Sensor connection:

moisture: BNC

temperature: flat pin plug (free of thermo-voltage)

Identical technical data like GMH3830 plus following features:

Logger functions:

-manuelly: 99 data sets (visualisation via keys/

display or interface)

10000 data sets (visualisation via -cyclic:

interface)

-adjustable cycle time: 30sec ... 1h

Logger start and stop via the keyboard or interface. Comfortable read-out and display software (GSOFT3050) available as additional equipment.

Real-time clock: clock with day, month and year

User curves: 4, programmable via interface

20 interpolation points per curve

By means of the gratis software GMHKonfig the interpolation points can be comfortably edited and stored to the instrument. To connect the instrument to a PC one of the interface converters mentioned below is needed.

Accessories:

SET 38 HF wood moisture set

SET 38 BF wood and building material moisture set

GSOFT 3050 logger software

GRS 3100 RS232 interface converter

USB 3100 N interface converter

GKK 3500 case (394 x 294 x 106 mm) with punched lining for device of the GMH3xxx-series

miscellaneous accessories p.r.t. pages 56 - 58

The handy alternative for wood and building material moisture measuring

Resistive material-moisture meas. device

GMH 3810

with integrated measuring pins

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

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

Specification:

Measuring principle:

moisture: resistive material-moisture-measuring matching DIN EN 13183-2:2002

temperature internal: NTC Characteristic curves: 494

Measuring range:

moisture: 0,0 to 100,0 % moisture content (depending on characteristic curve)

temperature: -40,0...+200,0°C (-40,0...+392,0°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 mat.: ±0,2 % moisture content (deviation from characteristic curve)

Temperature compensation:

automatically or manual

Measuring probe: 2 pin holders M6*0.75 with

19mm pins (12mm utilisable)

Perm. working temperature: -25 to 50°C

Storage temperature: -25 to +70°C

Relative humidity: 0 to +95%RH (non-condensing)

Display: two 4-digit LCDs

Power supply: 9V-battery, type IEC 6F22

Power consumption: approx. 2.5 mA

Dimensions / Weight: 142 x 71 x 26 mm, 175 g Housing: Impact-resistant ABS plastic housing, membrane keyboard, transparent panel. Front

side IP65, integrated pop-up clip

Functions: Hold, Auto-Hold, Sort, Auto Power Off (description refer to GMH3830)

Accessories:

GST 3810 replacement pins (10 pcs.) **GMK 3810**



1 m measuring cable, incl. adapter (2 x banana plug to 2 x banana plug) Allows connection of accessories

GSE 91 impact electrode

for additional accessories p.r.t. page 24 miscellaneous accessories p.r.t. pages 56 - 58

The "little brother"

for wood and building material moisture measuring



Resistive material-moisture meas. device

GMR 100

with integrated measuring pins

Small, compact measuring instrument for easy measurement of cut wood, chip, veneer, fire wood, wood briquettes, plaster, gypsum,

- Integrated, exchangeable measuring needles
- 4 popular wood groups A, B, C, D, construction materials E, plaster P
- · Direct display of moisture content u or wet basis water content w

Specification:

Measuring principle: resistive material-moisturemeasuring matching DIN EN 13183

Characteristic curves: 4 different wood groups (A, B, C, D) for a total of 130 kinds of wood, one universal construction material group E (tables), one construction material group P = Plaster

Meas. range: 0,0 to 100 % moisture content (depending on characteristic curve)

Estimation: in 6 steps (dry...wet)

Resolution: 0,0 ... 19,9 %: 0,1% moisture content 20 ... 100 %: 1% moisture content

Device accuracy: (at nominal temperature = 25 °C)

wood: ±0,2 % moisture content

(deviation to wood group characteristic curve, range 6...20%) ruction: ±0,2 % moisture content (deviation from construction curve) construction:

Temperature compensation: manual Measuring probe: 2 pin holders M6x0,75 with 19mm pins (12mm utilisable)

Perm. working temperature: -25 to 50°C Storage temperature: -25 to +70°C

Relative humidity: 0...95 %RH (non-condensing) Display: 41/2-digit LCD-display with additional

seaments

Power supply: 9V-battery, type IEC 6F22 Power consumption: approx. 1.8 mA

Housing: impact resistant ABS, membrane keyboard, transparent panel, front side IP65 Dimensions: 110 x 67 x 30 mm + needles 26 mm

Weight: approx. 155 g

Functions: Hold, Auto-Hold, Auto Power Off

Accessories:

GST 3810 replacement pins (10 pcs.)

GMK 3810 measuring cable incl.

for additional accessories p.r.t. page 24

GKK 252 case (235 x 185 x 48 mm) with foam lining

GB 9 V spare battery

miscellaneous accessories p.r.t. pages 56 - 58