

PT100 – HIGH PRECISION THERMOMETER



AUTO OFF

AUTORANGE

ISO

HOLD

MIN MAX

0/5-CORR



HIGHLIGHTS:

- Reference device for all calibration tasks
- highest accuracy
- Resolution (0.01 °C)
- including test report

ADDITIONAL FUNCTIONS WITH GMH 3750:



GMH 3710

Item No. 600332

Pt100 4-wire high-precision thermometer, device supplied without temperature sensor

GMH 3750

Item No. 600335

Pt100 4-wire high-precision thermometer with data logger, device supplied without temperature sensor

APPLICATIONS:

Reference control measurements in liquids, soft plastic media, air / gases

TECHNICAL SPECIFICATIONS:

Measuring ranges:	-199.99 .. + 199.99 °C or -200.0 .. + 850.0 °C -199.99 .. + 199.99 °F or -328.0 .. + 1562.0 °F
Resolution:	0.01 °C or 0.1 °C, 0.01 °F or 0.1 °F
Linearization:	Characteristic according to DIN EN 60751. With GMH 3750 additional user-specific characteristic
Accuracy: (± 1 digit) (at nominal temperature = 25 °C)	≤0.03 °C/0.06 °F with a resolution of 0.01 ° ≤0.1 °C/0.2 °F with a resolution of 0.1 °
Temperature drift:	≤ 0.002 °C/K
Sensor connection:	via 4-pole, shielded mini-DIN socket, Pt100, 4-wire, according to DIN EN 60751
Nominal temperature:	25 °C
Working temperature:	-25 .. + 50 °C
Relative humidity:	0 .. + 95 % RH (not condensing)
Storage temperature:	-25 .. + 70 °C
Display:	two 4½-digit LCD displays (12.4 mm or 7 mm high) and other pointers
Control elements:	6 membrane buttons
Output:	3-pole jack socket Ø 3.5 mm, either serial interface or analog output
Serial interface:	It can be connected directly to the RS232 or PC USB input via the galvanically isolated interface converter GRS 3100 or GRS 3105 or USB 3100 N (accessory).
Analog output:	0..1 V, freely scalable (resolution 13 bit, accuracy 0.05 % at nominal temperature)
Power supply:	9 V battery and additional power supply socket for external 10.5-12 V DC voltage supply
Power consumption:	approx. 1 mA, approx. 300 h
Housing:	Made of impact-resistant ABS, membrane keyboard, transparent panel, integrated pop-up clip
Dimensions:	142 x 71 x 26 mm (H x W x D)
Weight:	approx. 155 g
Scope of delivery:	Device, battery, test report, operating instructions

ADDITIONALLY FOR GMH 3750:

User-specific sensor characteristic:

50 support points (only GMH 3750)

Logger functions (only GMH 3750):

manual: 99 data records (retrieval of data via keyboard or interface)

cyclical: 16,384 data records (retrieval of data via interface)

adjustable cycle time: 1 s..1 h

The logger is started and stopped via the keyboard or interface. An easy-to-use software

GSOFT 3050 (see accessories) is available for reading-out the logger data.

Min/Max alarm

ACCESSORIES OR SPARE PARTS:

MINIDIN 4S

Item No. 601111

Mini-DIN plug, 4-pole with locking for self-assembly

USB 3100 N

Item No. 601092

Interface converter GMH3xxx <=> PC, USB

GSOFT 3050

Item No. 601336

Windows software for GMH 3000 and GMH 5000 with logger

GNG 10/3000

Item No. 600273

Plug power supply for GMH 3XXX series

ST-R1

Item No. 601066

Protective bag, leather

GKK 1100

Item No. 601060

Case with knob foam for universal use

GMH Config

(on our homepage: Download -> Software)

Program description: Convenient software for editing the user characteristics of the GMH 3750. (e.g. for calibration laboratories, etc.)

Note: Please take into account that an interface converter (USB 3100 N) is required for the device interface operation.