

PT100 - HIGH-PRECISION THERMOMETER



AUTO OFF

AUTORANGE

ISO

HOLD

MIN MAX

0/S-CORR



HIGHLIGHTS:

- Reference meter for any calibration requirement
- Highest accuracy
- Resolution (0.01 °C)
- Incl. calibration protocol

ADDITIONAL FUNCTIONS BEI GMH 3750:



GMH 3710

Art. no. 600332

Pt100 4-Wire High Precision Thermometer

GMH 3750

Art. no. 600335

Pt100 4 wire - High Precision Thermometer with data logger

Application:

Reference measuring device in liquids, soft media, air / gases.

Specifications:

Measuring range:	-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
Linearisation:	Curve according to DIN EN 60751. GMH 3750 add. supports an userdefined curve.
Accuracy: (±1 digit) (at nominal temperature = 25 °C)	≤0.03 °C / 0.06 °F at resolution 0.01° ≤0.1 °C / 0.2 °F at resolution 0.1°
Temperature drift:	≤0.002 °C / K
Probe connection:	via 4-pin miniature DIN-plug, Pt100, 4-wire, in acc. to DIN EN 60751
Nominal temperature:	25 °C
Working temperature:	-25 ... +50 °C
Relative humidity:	0 ... +95 % RH (non-condensing)
Storage temperature:	-25 ... +70 °C
Display:	two 4½ digit LCDs (12.4 mm or 7 mm high), as well as additional arrows.
Pushbuttons:	6 membrane keys
Output:	3-pin jack connector Ø 3.5 mm, choice between serial interface or analog output
Serial interface:	direct connection to RS232 or USB interface of a PC via electrically isolated interface adapter GRS 3100 or GRS 3105 resp. USB 3100 N (p.r.t. accessories).
Analog output:	0 ... 1 V, freely adjustable (resolution 13 bit, accuracy 0.05 % at nominal temperature)
Power supply:	9 V-battery, as well as additional d.c. connector for external 10.5 ... 12 V voltage supply
Power consumption:	approx. 1 mA, approx. 300 h
Housing:	Impact-resistant ABS plastic housing, 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 supply:	Device, battery, calibration protocol, manual

additional at GMH 3750:

Userdefined sensor curve:

50 interpolation points (GMH 3750 only)

Logger function (GMH 3750 only):

manual: 99 data sets (fetch data via buttons or interface)

cyclic: 16.384 data sets (fetch data via interface)

adjustable cycle time: 1 s ... 1 h

The logger is started or stopped by keypad or interface. The software GSOFT3050 (see accessories) is available for comfortable read-out of logger data.

Accessories and spare parts:

MINIDIN 4S

Art. no. 601111

Mini-DIN plug, 4-pin, with lock and for self installation

USB 3100 N

Art. no. 601092

Interface Converter GMH3xxx <=>PC, USB

GSOFT 3050

Art. no. 601336

Windows software for GMH 3000 and GMH 5000 with logger (p.r.t. page 110)

GNG 10 / 3000

Art. no. 600273

Plug in power supply for devices of the series GMH 3XXX

ST-R1

Art. no. 601066

Protection bag, leather (p.r.t. page 111)

GKK 1100

Art. no. 601060

Case with punched lining for universal application

GMHKonfig

(visit our homepage: Download -> Software)

Software description:

Comfortable software to edit the user defined sensor curve of the GMH 3750.

(e.g. for calibration laboratories etc.)

Note:

Please note that for the interface communication with the device a interface converter (USB 3100 N) is necessary (p.r.t. page 115).