

Pt100 - High-Precision Thermometer

HIGHLIGHTS:

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

ADDITIONAL FUNCTIONS AT GMH 3750:**GMH 3710**

Art. no. 600332

Pt100 - High-Precision Thermometer, Accessories not incl., 4-wire

GMH 3750

Art. no. 600335

Pt100 - High-Precision Thermometer, Accessories not incl., 4-wire, Data logger

Application:

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

Specifications:

Measuring range:	-199.99 ... +199.99 °C resp. -200.0 ... + 850.0 °C -199.99 ... +199.99 °F resp. -328.0 ... +1562.0 °F
Resolution:	0,01 °C resp. 0,1 °C; 0,01 °F resp. 0,1 °F
Linearisation:	Curve according to DIN EN 60751. GMH 3750 add. supports a 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
Input:	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 inter- face 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 protocoll, manual

additional at GMH 3750:**Userdefined sensor curve:**

(50 interpolation points)

Logger function

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:**USB 3100 N**

Art. no. 601092

interface converter

GSOFT 3050

Art. no. 601336

operating software (p.r.t. page 97)

GNG 10 / 3000

Art. no. 600273

power supply

ST-R1

Art. no. 601066

device protection bag (p.r.t. page 93)

GKK 1100

Art. no. 601060

case (340 x 275 x 83 mm) with foam lining for universal use

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 94).