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Product Information

Member of GHM GROUF

GMH 3710/3750

Pt 100 4 wire High **Precision Thermometer** GMH 3710 / GMH 3750





- Reference instrument for many calibration tasks
- highest accuracy
- thermo-voltage-compensated measurement
- high resolution (0.01 °C)
- incl. test report
- numerous 4-wire interchangeable probes available
- Excellent price-performance ratio
- Robust, long battery life
- Variant GMH 3750 with logger and alarm
- Made in Germany

Features

Powerful 4-wire Pt 100 thermometers with premium features.

Due to thermo-voltage-compensated measurement, low sensor current and complex linearization, accuracies better than 0.07 K are already possible with economical DIN Class AA sensors.

Traceable sets with ISO or DAkkS calibration certificates make the acquisition of a high-quality working or factory standard based on the GMH 3700 series both surprisingly inexpensive and easy!

Technical Data

Measuring ranges -199.99 ... +199,99 °C / -200,0 ... + 850,0 °C

-199,99 ... +199,99 °F / -328,0 ... +1562,0 °F

0.01 °C or 0.1 °C / 0.01 °F or 0.1 °F Resolution Linearization Characteristic curve according to DIN EN

60751.

For GMH 3750 add. user-specific

characteristic curve

Accuracy (±1 digit, at nominal temperature = 25 °C)

≤0.03 °C / 0.06 °F with resolution 0.01°.

≤0.1 °C / 0.2 °F with a resolution of 0.1

Temperature drift ≤0,002 °C / K Measuring rate 2 measurements/s

Measuring current 0.3 mA

Sensor connection via 4-pin shielded mini-DIN socket, Pt100, 4-

wire, according to DIN EN 60751

Nominal temperature 25 °C

Operating temperature -25 ... +50 °C

Relative humidity 0 ... +95 % r.h. (non-condensing)

Storage temperature -25 ... +70 °C

two 41/2-digit LCD displays (12.4 mm or 7 mm Display

high), as well as additional information arrows

Operating elements 6 membrane keys

Output 3-pole jack plug Ø 3.5 mm, optionally serial

interface or analog output

serial interface can be connected directly to the RS232 or

USB interface of a PC via electrically 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 power supply

Current consumption approx. 1 mA, approx. 300 h

made of impact-resistant ABS, membrane Housing

keyboard, transparent screen, integrated

installation/hanging bracket **Dimensions** 142 x 71 x 26 mm (H x W x D)

Weight approx. 155 g

Scope of delivery device, battery, test report, operating manual

Additionally for GMH 3750:

User specific sensor characteristic:50 points

Logger functions manual: 99 data sets (data sampling via

keyboard or interface)

cyclic: 16,384 data records (data retrieval via

interface) Adjustable cycle time: 1 s ... 1 h

The logger is started and stopped via

keyboard or interface. A comfortable software GSOFT 3050 (see accessories) is available to

read out the logger data

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Product Information



Scope of delivery

- Handheld
- Test protocol
- 9V battery
- Manual

Ordering code

GMH3710- 1

1	Set-Option	
		Device alone, without temperature probe
	SET1	Set including device, GTF401 AA, ISO calibration -2070 °C and case GKK3500
	SET2	Set including device, GTF401 AA, ISO calibration 0250 °C and case GKK3500
	DKD1	Set including device, GTF401 AA, DKD calibration -2070 °C and case GKK3500

GMH3750- 1

1	Set-Option	
		Device alone, without temperature
		probe
		Set including device, GTF401 AA,
		ISO calibration -2070 °C and case
	SET1	GKK3500
		Set including device, GTF401 AA,
		ISO calibration 0250 °C and case
	SET2	GKK3500
		Set including device, GTF401 AA,
		DKD calibration -2070 °C and case
	DKD1	GKK3500

Accessories

MINIDIN 4S (article no. 601111) Mini-DIN plug, 4-pin with lock for self-assembly.

GTF 401 DIN KI. AA (article no. 600378) Immersion sensor for liquids / gases -50 to +400 °C, DIN class AA (±0.1 °C at 0 °C) (Many other sensor variants available!)

USB 3100 N (article no. 601092) Interface converter GMH3xxx <=>PC, USB

GSOFT 3050 (article no. 601336) Windows software for GMH 3000 and GMH 5000 with logger

GNG 10 / 3000 (article no. 600273) Wall plug power supply for GMH 3XXX series

ST-R1 (article no. 601066) Protective bag, leather

GKK 1100 (article no. 601060) Case with napped foam for universal use

GMHKonfig (free, on our homepage: Download -> Software)

Program description: Comfortable software for editing the user characteristic curve of the GMH 3750.

Please note that an interface converter (USB 3100 N) is required for interface operation of the device.