

Precision quick-response thermometer for thermocouples



**VERY QUICK
RESPONSE TIME**

HIGHLIGHTS:

- Serial interface
- Correction factor for surface measuring can be switched on / off
- Analog output 0 - 1 V at GMH 3210

GMH 3230 AND GMH 3250:

- 2 plug-in probes can be connected and read simultaneously
- Temperature differences

ADDITIONAL FUNCTIONS

GMH 3230: **GMH 3250:**



GMH 3210 connection



GMH 3250 connection

suitable probes p.r.t. p. 24

GMH 3210

Art. no. 600337

GMH 3210-B

Art. no. 605131

Precision quick-response thermometer, accessories not included, 1 plug-in probe input

Specifications:**Thermocouples:**

GMH 3210: J, K, N, S, T

GMH 3210-B: B, K, N, S, T,

Resolution: 0.1 °C or 1 °C

Measuring range (depending on thermocouples): -220 ... +1750 °C

Measuring ranges: (extract)

Type K: (MB1) -65.0 ... +300.0 °C

(MB2) -220 ... +1372 °C

GMH 3210-B: +300 ... +1750 °C

Accuracy: (extract)

Type K: (for MB1) ±0.03 % of m.v. ±0.05 % f.s.

(for MB2) ±0.08 % of m.v. ±0.1 % f.s.

Working temperature: -25 ... +50 °C

Probe connections: 1

Display: two 4-digit LCDs (12.4 mm and 7 mm high)

Output: 3-pin jack connector Ø 3.5 mm, configurable

Serial interface: direct connection to RS232 or USB interface of a PC via electrically isolated interface adapter GRS 310x or USB 3100 N (p.r.t. accessories).

Analog output: 0 ... 1 V, freely adjustable, resolution 13 bit, accuracy 0.05 % at nominal temperature

Compensation value for surface measurements: can be set and switched on/off if required

Power supply: 9 V-battery as well as additional d.c. connector for external 10.5-12 V direct voltage supply. (suitable power supply: GNG10/3000)

Battery life: approx. 1000 h

Housing: impact resistant ABS plastic case, 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, manual

GMH 3230

Art. no. 600339

Precision quick-response thermometer, accessories not included, 2 plug-in probe inputs

GMH 3250

Art. no. 600341

Precision quick-response thermometer, accessories not included, 2 plug-in probe inputs, Data logger

Specifications:

Thermocouples: J, K, N, S, T

Resolution: 0.1 °C or 1 °C

Measuring range: -220°C ... +1750°C (depending on thermocouples)

Measuring ranges: (extract)

Type K: (MB1) -199.9 ... +999.9 °C

(MB2) -220 ... +1372 °C

Genauigkeit: (Auszug)**Accuracy: (extract)**

Type K: (for MB1) ±0.03 % of m.v.

±0.05 % f.s. (T ≥ -60 °C)

±0.2 % of m.v.

±0.05 % f.s. (T < -60 °C)

(for MB2) ±0.08 % of m.v.

±0.1 % f.s. (T ≥ -100 °C)

±1 °C ±0.1 % f.s. (T < -100 °C)

Probe connections: 2

Display: two 4-digit LCD displays (12.4 mm and 7 mm high)

Serial interface: 3-pole jack socket Ø 3.5 mm, direct connection to RS232 or USB interface of a PC via electrically isolated interface adapter GRS 310x or USB 3100 N (p.r.t. accessories).

Compensation value for surface measurements: can be set and switched on/off if required

Difference measurements: Temperature difference probe 1 - probe 2 can be displayed if 2 probes are connected.

Logger function: **manual:** 99 data sets (fetch data via buttons or interface)
cyclic: 9.999 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 GSOFT 3050 (see accessories) is available for comfortable read-out of logger data.

Power supply:

9 V-battery as well as additional d.c. connector for external 10.5-12 V direct voltage supply. (suitable power supply: GNG10/3000)

Battery life:

approx. 200 h

Housing:

impact resistant ABS plastic case, 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, manual

Accessories and spare parts:**GB 9 V**

Art. no. 601115

Spare battery 9 V

GNG 10/3000

Art. no. 600273

Plug-in power supply (220 / 240 V, 50 / 60 Hz), output voltage: 10.5 V / 10 mA, suitable for devices with power supply socket

ST-N1

Art. no. 601070

Nappa leathern device protection bag with 1 rectangular cut-out for sensor connection suitable for: GMH 3210

ST-N2

Art. no. 601072

Nappa leathern device protection bag with 2 rectangular cut-outs for sensor connection suitable for: GMH 3230, GMH 3250

GKK 3500

Art. no. 601052

with punched lining for 1 device (394 x 294 x 106 mm)