

## Precision quick-response thermometer for thermocouples



STANDARD-FUNCTIONS:

**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:



suitable probes p.r.t. p. 20-22!

## GMH 3210

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

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) -65.0 ... +300.0 °C (MB2) -220 ... +1372 °C
Accuracy: (extract)	
Type K:	(for MB1) ±0.03 % of m.v. ±0.05 % f.s. (for MB2) ±0.08 % v. MW. ±0.1 % FS
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 3100 or GRS 3105 resp. USB 3100 N (p.r.t. accessories).
Analog output:	0 - 1 V, freely adjustable, reso- lution 13 bit, accuracy 0.05 % at nominal temperature
Compensation value for surface measurements:	can be set and switched on/off if required
Power supply:	9V-battery as well as additional d.c. connector for external 10.5- 12 V direct voltage supply. (suita- ble power supply: GNG10/3000)
Power consumption:	approx. 0.3 mA
Housing:	impact resistant ABS plastic case, membrane keyboard, transparent panel, front side IP65, 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

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

## GMH 3250

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)	
Typ K:	(MB1) -199.9 ... +999.9 °C (MB2) -220 ... +1372 °C
Accuracy: (extract)	
Typ K:	(für 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) (für MB2) ±0.08 % of m.v. ±0.1 % f.s. (T ≥ -100 °C) ±1 °C ±0.1 % f.s. (T < -100 °C)
Working temperature:	-25 ... +50 °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 3100 or GRS 3105 resp. USB 3100 N (p.r.t. accessories).
Compensation value for surface measurements:	can be set and switched on/off if required
Power supply:	9V-battery as well as additional d.c. connector for external 10.5- 12 V direct voltage supply. (suita- ble power supply: GNG10/3000)
Power consumption:	approx. 1.6 mA
Housing:	impact resistant ABS plastic case, membrane keyboard, transparent panel, front side IP65, 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

## Variant:

## GMH 3210-B

Product-ID: 605131

GMH 3210 with input for thermocouples B, K, N,  
S, T, measuring range +300 ... +1750 °C

## Accessories and spare parts:

## GB 9 V

Spare battery

## GNG 10/3000

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

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

## ST-N2

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

## GKK 3500

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