

## Quick response thermometer

## Precision quick response thermometer Type K



### GTH 1150

Quick response thermometer, battery operation, for plug-in probes

### GMH 1150

Quick response thermometer, battery/mains operation, for plug-in probes

#### Application:

quick response measurements on surfaces, in liquids, soft media, air/gases, at the smallest objects etc. For all applications where a resolution of 1 °C is sufficient.

#### Specification:

<b>Measuring range:</b>	-50 ... +1150 °C
<b>Resolution:</b>	1 °C
<b>Accuracy:</b> (at nominal temperature)	≤ 1 % ± 1 digit (from -20 ... +550 and 920 ... 1150 °C) ≤ 1.5 % ± 1 digit (from 550 ... 920 °C) from -20 ... -50 °C according to attached correction table
<b>Probe connection:</b>	standard flat-pin plug (free of thermo-voltage) suitable for all NiCr-Ni (type K) - probes. Probe is not included in scope of supply - optimum probe to be ordered separately depending on desired application! Refer to pages 128 - 132.
<b>Display:</b>	3½ digit, approx. 13 mm high
<b>Nominal temperature:</b>	25 °C
<b>Working temperature:</b>	0 ... 45 °C
<b>Storage temperature:</b>	-20 ... +70 °C
<b>Power supply:</b>	9 V battery type IEC 6F22 (included). Additional at GMH 1150: d.c. connector for external 10.5-12 V direct voltage supply. (suitable power supply: GNG10/3000)
<b>Power consumption:</b>	approx. 0.4 mA
<b>Battery service life:</b>	approx. 700 operating hours
<b>Low battery warning:</b>	„BAT“
<b>Dimensions:</b>	GTH ...: approx. 106 x 67 x 30 mm (H x W x D). impact resistant ABS plastic housing. GMH ...: approx. 142 x 71 x 26 mm (H x W x D). impact resistant ABS plastic housing, front side IP65, integrated pop-up clip for table top or suspended use.
<b>Weight:</b>	approx. 150 g (GTH 1150), approx. 160 g (GMH 1150)

#### Accessories and spare parts:

<b>GTF 300</b> wire probe (for measuring ranges -65 ... 300 °C)	
<b>additional NiCr-Ni probes (type K)</b>	p.r.t. page 128 - 132
<b>GB 9 V</b> spare battery	
<b>GKK 252</b> case (235 x 185 x 48 mm) with foam lining	
<b>GKK 3000</b> case (275 x 229 x 83 mm) with punched lining, suitable for all devices of the GMH3xxx-series, GMH 1150	
<b>ST-KN</b> device protection bag, suitable for GTH 1150	
<b>ST-N1</b> device protection bag, suitable for GMH 1150	
<b>GNG 10 / 3000</b> power supply	

### GTH 1170

Precision quick response thermometer, battery operation, for plug-in probes, °C / °F (0.1° or 1°), min./max. value memory, hold, automatic-off, offset/scale

### GMH 1170

Precision quick response thermometer, battery operation, for plug-in probes, °C / °F (0.1° or 1°), min./max. value memory, hold, automatic-off, offset/scale

#### Application:

quick response measurements on surfaces, in liquids, air/gases etc.

#### Specification:

<b>Measuring ranges:</b>	-65.0 ... +199.9 °C or -65 ... +1150 °C (-85.0 ... +199.9 °F or -85 ... +1999 °F)
<b>Resolution:</b>	0.1 °C or 1 °C (0.1 °F or 1 °F)
<b>Accuracy: ± 1 digit</b> (at nom. temperature)	-65.0 ... 199.9 °C: ±0.05 % of m.v. ±0.2 % FS -65 ... 1150 °C: ±0.1 % of m.v. ±0.2 % FS
<b>Temperature drift:</b>	0.01 %/K
<b>Point of comparison:</b>	±0.3 °C
<b>Probe connection:</b>	standard flat-pin plug (free of thermo-voltage) suitable for all NiCr-Ni (type K) - probes. (for suitable probes please refer to pages 128 - 132)
<b>Offset und Scale:</b>	digital offset and scale adjustment for optimum precision
<b>Display:</b>	3½ digit, approx. 13 mm high
<b>Working temperature:</b>	-25 ... +50 °C
<b>Storage temperature:</b>	-25 ... +70 °C
<b>Power supply:</b>	9 V-Batterie Type IEC 6F22 (included).
<b>Measuring interval:</b>	approx. 3 meas. / s
<b>Power consumption:</b>	approx. 0.15 mA
<b>Battery service life:</b>	approx. 2000 operating hours
<b>Low battery warning:</b>	„BAT“
<b>Auto-off-function:</b>	selectable from 1 to 120 min. or deactivated
<b>Min./Max. value memory:</b>	memorizing of max. and min. values
<b>Hold function:</b>	By pressing a button the current values will be memorized
<b>Dimensions:</b>	GTH ...: approx. 106 x 67 x 30 mm (H x W x D). impact resistant ABS plastic housing. GMH ...: approx. 142 x 71 x 26 mm (H x W x D). impact resistant ABS plastic housing, front side IP65, integrated pop-up clip for table top or suspended use.
<b>Weight:</b>	approx. 135 g (GTH 1170), approx. 150 g (GMH 1170)

#### Accessories and spare parts:

<b>NiCr-Ni (type K) probes</b>	p.r.t. page 128 - 132
<b>GB 9 V</b> spare battery	
<b>GKK 252</b> case (235 x 185 x 48 mm) with foam lining	
<b>GKK 3000</b> case (275 x 229 x 83 mm) with punched lining, suitable for all devices of the GMH3xxx-series, GMH 1170	
<b>ST-KN</b> device protection bag, suitable for GTH 1170	
<b>ST-N1</b> device protection bag, suitable for GMH 1170	
<b>Komplett-offering</b> device incl. certificate of calibration and case	p.r.t. page 6