

Maximum speed and resolution,
universal application, low price



PRECISION QUICK-RESPONSE THERMOMETER

GMH 1170

Battery operation, for plug-in probes, °C / °F (0,1° or 1°), min./max. value memory, hold function, automatic-off, offset and scale adjustable

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

Specification:

Measuring range:

-65,0 ... +199,9°C or -65 ... +1150°C
(-85,0 ... +199,9°F or -85 ... +1999°F)

Resolution: 0,1°C or 1°C (0,1°F or 1°F)

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

-65,0...199,9°C: ±0.05% of m.v. ±0.2% FS

-65 ... 1150°C: ±0.1% of m.v. ±0.2% FS

Temperature drift: 0,01%/K

Point of comparison: ±0,3°C

Probe connection: standard flat-pin plug suitable for all NiCr-Ni (type K) probes.

(For suitable Probes p.r.t. pages 87 - 91)

Offset and Scale: digital offset and scale adjustment for optimum precision.

Display: 3½ digit LCD, approx. 13mm high

Working temperature: -25 to +50 °C

Storage temperature: -25 to +70 °C

Power supply: 9V battery type IEC 6F22 (incl.).

Measuring interval: approx. 3 meas. / sec.

Power consumption: approx. 0.15 mA

Battery service life: approx. 2000 operating hours

Low battery warning: „BAT“

Auto-Off-function: selectable from 1 to 120 min. or deactivated

Min./Max. value memory: Memorizing of max. and min. values.

Hold function: By pressing a button the current values will be memorized.

Dimensions: approx. 142 x 71 x 26 mm (H x W x D), impact resistant ABS plastic case, front side IP65, integrated pop-up clip for table top or suspended use.

Weight: approx. 145 g (incl. battery)

Accessories:

For NiCr-Ni probes p. r. t. pages 87 - 91.

GKK 3000 case

(275 x 229 x 83 mm) with punched lining suitable for all devices of the GMH3xxx-series and GMH1150

GB 9 V spare battery

for additional accessories p.r.t. page 35

High accuracy and precision for a
minimum of price

Komplett-offerings p.r.t. page 4



DIGITAL-PRECISION POCKET THERMOMETER

GTH 175/Pt

Battery operation, complete with probe

Application: high-precision measurements in liquids, core measurements (using insertion probe), for air/gases or as reference device for calibrating other, more expensive systems!

Specification:

Measuring range: -199,9 ... +199,9 °C

Resolution: 0,1°C

Accuracy: (at nominal temperature = 25°C)

0,1 % o.m.v. ±2 digit (within range of: -70.0...+199.9°C), probe is calibrated to the device, i.e. the error in the range of 0 to 100°C will be approx. 0,1 °C ± 1 digit.

Probe: Pt1000, 2-wire, electrically isolated and mounted in st. steel tube (1.4571) 3 mm Ø and approx. 100 mm long, plastic handle approx. 135 mm long, anti-buckling glanding and 1m of highly flexible silicone cable - permanently connected to the device.

Display: 3½ digit LCD, approx. 13mm high

Working temperature: -30 to 45 °C

Storage temperature: -30 to +70 °C

Power supply: 9V battery type IEC 6F22 (incl.).

Battery service life: approx. 200 operating h

Low battery warning: „BAT“

Dimensions: approx. 150 x 86 x 30 mm (H x W x D), impact resistant ABS plastic case

Weight: approx. 190g (incl. battery and probe)

GTH 175/Pt-E

(core temperature measuring instrument)

Specification: refer to GTH 175/Pt

however with insertion probe vor all soft media.

GTH 175/Pt-K

(core temperature measuring instrument)

Specification: refer to GTH 175/Pt

however with probe with teflon handle and teflon cable. Both handle and cable are resistant to air temperature of up to a max. of 200°C and can remain in the oven.

special design types: (op un request)

e.g. probe cable in another length, waterproof handle.

Accessories:

ST-175 device protection bag

with cut-out for probe connection, suitable for GTH175/Pt

High accuracy and precision,
plug-in probe, battery and permanent
mains operation possible



DIGITAL-PRECISION THERMOMETER

GMH 175

Battery/mains operation, for plug-in probes, Pt1000 2-wire

Application: high-precision measurements in liquids, soft media, air/gases

Specification:

Measuring range: -199,9 ... +199,9 °C

Resolution: 0,1°C

Accuracy: (at nominal temperature = 25°C)

device: 0,1°C ± 1 digit (within range of: -70.0...+199.9°C)

Probe: Pt1000 probe, 2-wire, probe connection via 3.5 mm Ø jack connector.

Probes not included - please order separately!

For suitable, volt-free sensors see below or refer to page 86.

Display: 3½ digit LCD, approx. 13mm high

Working temperature: -30 to 45 °C (low temperature - for use in cold storage rooms)

Storage temperature: -30 to +70 °C

Power supply: 9V battery type IEC 6F22

(included) as well as additional d.c. connector (internal pin Ø 1.9mm) for external 10.5-12V direct voltage supply. (suitable power supply: GNG10/3000)

Battery service life: approx. 200 operating h

Low battery warning: „BAT“ displayed

automatically in case of low voltage

Dimensions: approx. 142 x 71 x 26 mm (H x W x D), impact resistant ABS plastic case, front side IP65, integrated pop-up clip for table top or suspended use.

Weight: approx. 160 g (incl. battery)

Accessories:

Suitable plug-in temperature probes:

(Probes interchangeable without recalibration!)

GTF 175 immersion probe

for liquids and aggressive gases

GES 175 insertion probe

for soft media

GOF 175 surface probe

for any solid surface

GLF 175 air/gas probe

for clean media

Detailed description and more probes please refer to page 86

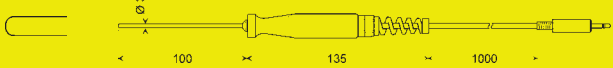
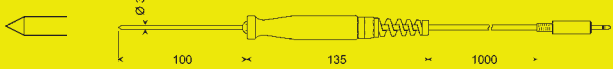
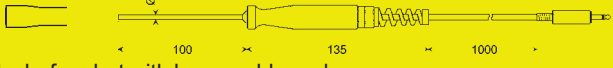
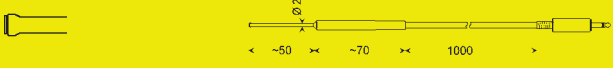
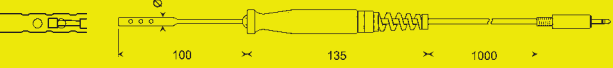
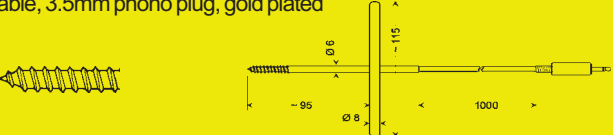
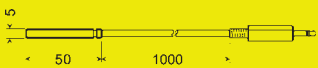
ST-R1 device protection bag with cut-out for probe connection, suitable for GMH175, ...

GB 9 V spare battery

miscellaneous accessories p.r.t. page 35

Pt 1000 - Measuring probes, 2-wire (standard class B)

All types of probes also available for Pt100 2- / 3- or 4-wire connection

Ordering type Range	Application / Dimensions (mm) techn. specification	Response time t_{90}	suitable for	Price
GTF 175 -70 ... +200°C Pt1000 class B	Immersion probe for liquids / gases non-corrosive stainless steel tube (V4A), plastic handle, anti-buckling glanding, 1m highly flexible silicone cable, 3.5 mm gold plated jack connector 	fluid approx. 10 sec. air approx. 40 sec.	GMH175 GFTH200 ST60, ST80 GPHU014MP	
GTF 175 LE	like before but with loose cable ends		GIA20EB	
GTF 175 / 1.6 -70 ... +200°C Pt1000 class B	Immersion probe for liquids / gases probe tube: jacket element $\varnothing 1.6$ mm, flexible, other data p.r.t. GTF175	fluid approx. 4 sec. air approx. 25 sec.	GMH175 GFTH200 ST60, ST80 GPHU014MP	
GTF 175 / 1.6 - LE	like before but with loose cable ends		GIA20EB	
GES 175 -70 ... +200°C Pt1000 class B	Insertion probe for soft media stainless steel tube (V4A) with slim insertion tip, other data p.r.t. GTF175 	approx. 10 sec.	GMH175 GFTH200 ST60, ST80 GPHU014MP	
GES 175 LE	like before but with loose cable ends		GIA20EB	
GOF 175 -70 ... +200°C Pt1000 class B	Surface probe for solid surfaces S2 x 2.3mm ceramic Pt1000 sensor mounted at the tip. V4A tube, quadratic 3 x 3 mm at the tip, other data p.r.t. GTF175 	approx. 60 sec.	GMH175 ST60, ST80	
GOF 175 LE	like before but with loose cable ends		GIA20EB	
GOF 175 Mini -70 ... +200°C Pt1000 class B	Surface probe for solid surfaces, fast S2 x 2.3mm ceramic Pt1000 sensor mounted at the tip, V4A tube, 1m silicone cable, 3.5 mm gold plated jack connector 	approx. 15 sec.	GMH175 GFTH200 ST60, ST80	
GLF 175 -70 ... +200°C Pt1000 class B	Air/gas probe for clean media (for dirty measurands use GTF175), punched V4A protection tube, fast miniaturized Pt1000 mounted freely in tube, resulting in fast response, other data p.r.t. GTF175 	approx. 15 sec.	GMH175 GFTH200 ST60, ST80	
GLF 175 LE	like before but with loose cable ends		GIA20EB	
GGF 175 -70 ... +200°C Pt1000 class B	Probe for deep-frozen products to screw into deep-frozen products, etc. no predrilling required. Stainless steel (V4A) tube, 6 mm \varnothing with screw prod, flexible silicone cable, 3.5mm phono plug, gold plated 	approx. 15 sec.	GMH175 GFTH200 ST60, ST80	
GTF 2000 -70 ... +200°C Pt1000 class B	Air- / tube mounting probe Probe for diving tube. Tube of stainless steel, highly flexible silicone cable 2 x 0.25 ² , 3.5mm gold plated phono plug 		GMH175 GFTH200 ST60, ST80 GPHU014MP	
GTF 2000 LE	Customized cable lengths (1m standard), each beginning meter like before but with loose cable ends		GIA20EB	
GTF 2000 WD -20 ... +70°C Pt1000 class B	Air- / tube mounting probe - water proof type Construction like described before, but cable of PVC and tube enclosed water proof, max. 70°C!		GMH175 GFTH200 ST60, ST80 GPHU014MP	
GTF 2000 WD - LE	like before but with loose cable ends		GIA20EB	

We manufacture all types of probes according to Your special desires - low priced and fast. Please contact us.