

PRECISE PT 1000 UNIVERSAL THERMOMETER



DURABLE AND AFFORDABLE

HIGHLIGHTS:

- Modern and functional housing
- 3-line display / overhead display at the push of a button
- Backlighting
- Alarm function
- Waterproof (IP65 / IP67)
- Durable, long battery life

G 1710, G 1720, G 1730 WITH PERMANENTLY CONNECTED SENSOR SEE PAGE 24



Connection

G 1700

Art. no. 609826

Precise universal thermometer, with BNC connection, without sensor

General:

The primary focus in the development of the new GMH 1000 series was placed on the essential functions of the measurement technology. Pure measurement with a focus on precision, speed and reliability packaged in a compact housing distinguish an impressive price/performance ratio, Made in Germany. The new handheld measuring devices also impress with their ergonomic design, dust and water-protected design in accordance with IP 65/67 and the illuminated display. The compact thermometer is available with a practical BNC connection for interchangeable sensors. The device redefines our entry-level measurement class - calibration log included.

Application:

The highest-precision measurements in liquids and in air, for measurement of core temperatures (with insertion sensor); laboratories, quality assurance, service, food, etc.

Specifications:

Measuring range:	-200.0 ... +450.0 °C (-328.0 ... +842.0 °F) with plug-in sensor (Observe the permissible range of application of the sensor that is used!)
Accuracy (device): (at nominal temperature = 25 °C)	-20 ... +100 °C: ±0.1 K ±1 digit otherwise 0.1 % of m. v. ±2 digits
Operating conditions:	-20 ... +50 °C; 0 ... 95 % RH (non condensing)
Display:	3-line unit, with background light, protected by an unbreakable pane, overhead display at the push of a button
Power supply:	2 x AA battery, >5000 h operating time
Sensor:	Pt1000 2-wire can be used with BNC connection
Protection rating:	IP65 / IP67 (only with sensors identified as waterproof in the connected state)
Housing:	break-proof ABS housing
Dimensions:	108 x 54 x 28 mm (H x W x D) without sensor connection
Weight:	130 g (without sensor)
Scope of supply:	Device, calibration protocol, 2 x battery, manual

Accessories and spare parts:

- GF 1T-T3-B-BNC**
Art. no. 609549
Pt1000 handheld sensor, Pt1000 Class B, with BNC connector, Ø 3 mm, p.r.t. page 22
- GF 1T-E3-B-BNC**
Art. no. 609639
Pt1000 insertion sensor, Pt1000 Class B, with BNC connector, Ø 3 mm, p.r.t. page 22
- GF 1T-E1.5-B-BNC**
Art. no. 609645
Extra-thin Pt1000 insertion sensor, Pt1000 Class B, with BNC connector, Ø 1.5 mm, p.r.t. page 22
- ST-G1000**
Art. no. 611373
Device protection bag with 1 round cut-out
- GB AA**
Art.-Nr: 610049
Spare battery AA (2 batteries required)

Further sensors see page 21-23

SUITABLE PT1000 - MEASURING PROBES, 2-WIRE

Accuracy Pt1000:

sensor accuracy acc. to DIN EN 60751	
DIN cl. B: (area of validity: -50 ... +500 °C)	±0.3 °C at 0 °C
DIN cl. A: (area of validity: -30 ... +300 °C)	±0.15 °C at 0 °C
DIN cl. AA = 1/3 DIN cl. B: (area of validity: 0 ... +150 °C)	±0.1 °C at 0 °C

Upcharges special designs:

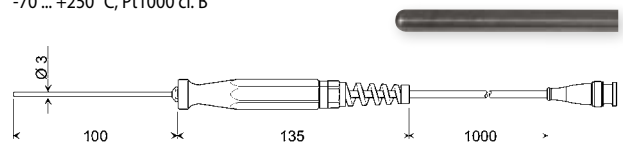
- longer probe tube**
upcharge per further starting 100 mm
- longer cable (silicone)**
upcharge per further starting meter
- other cable material**
upcharge per meter p.r.t. page 220
- teflon covered probe tube**
(for probes up to 200 mm)
(for probes used in acids and salt water, upper temperature range 250 °C)
- casted waterproof probe handle**
(only possible with PVC cable -20 ... +105 °C)
- higher sensor accuracy:**
DIN cl. AA, for Pt1000, tolerances: 0.1 °C at 0 °C
- higher sensor accuracy:**
1/10 DIN cl. B, for Pt1000-probes, tolerances: 0.03 °C at 0 °C

basic fee for custom made probe

All types of probes also available for Pt100 2- / 3- or 4-wire connection
We manufacture all types of probes according to your special desires - low priced and fast. Please contact us.

GTF 175-BNC

Art. no. 607165
Immersion for liquids / gases
-70 ... +250 °C, Pt1000 cl. B



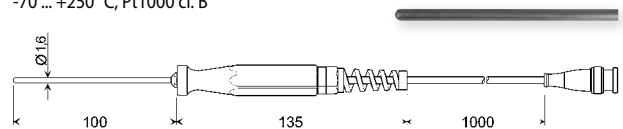
non-corrosive V4A tube, Ø 3 mm, plastic handle, anti-buckling glanding, 1 m highly flexible silicone cable, BNC connector

Response time T₉₀: water 0.4 m/s <2 s, air 2 m/s approx. 40 s

- Advantages of sheath element Pt1000:**
- high temperature resistance
 - sheath cable is bendable
 - high shock resistance
 - high service life

GTF 175 / 1.6-BNC

Art. no. 611323
Immersion probe with sheath element Pt1000
-70 ... +250 °C, Pt1000 cl. B

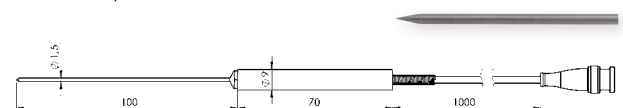


stainless steel tube (V4A), flexible, Ø 1.6 mm, plastic handle, anti-buckling glanding, 1 m highly flexible silicone cable, BNC connector

Response time T₉₀: water 0.4 m/s <2 s, air 2 m/s approx. 25 s

GES 20-BNC

Art. no. 607377
Insertion probe for soft media
-70 ... +250 °C, Pt1000 cl. B



V4A tube with Ø 1.5 mm slim insertion tip, small teflon handle, stainless steel kink protection, 1 m Teflon cable, BNC connector

Response time T₉₀: water 0.4 m/s <1 s, air 2 m/s approx. 12 s