

GF 1T



Pt1000-handle-probe

- Compact, pen-type handle with high operating temperature up to 250 °C
- 3 probe types:
immersion probe Ø 3mm,
insertion probe Ø 3mm,
needle type insertion probe Ø 1.5 mm
- Very fast!
- Pt1000 platinum probe for 2-wire instruments (e.g. ECO 120, pH-meters with T-input)
- Water-protected according to IP65 and IP67



DESCRIPTION

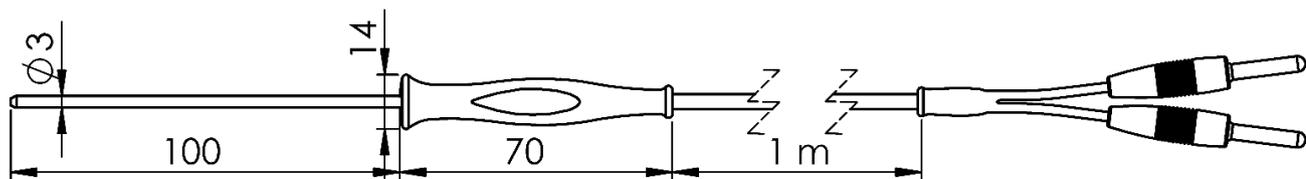
GF 1T Pt1000 – compact-handle-probe is designed for use in gases, liquids and soft materials. The probe is made of stainless steel, which is suitable for continuous food contact.

The cable is optionally terminated with BNC-connector (for ECO 120 thermometer), 2 banana plugs (for pH-meters, e.g. ECO 511, GMH 35xx) or loose ends.

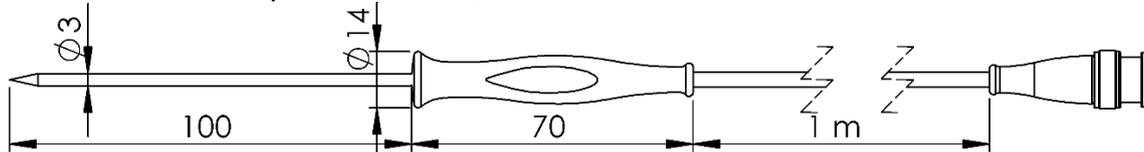
The compact pen type silicone-handle is high temperature resistant up to 250°C which makes it extremely versatile.

Mechanical design / dimensions:

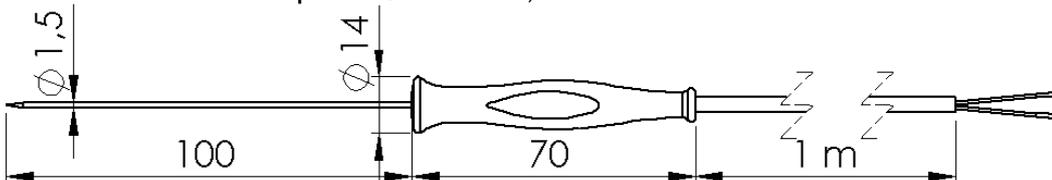
GF1T-T3: Immersion probe Ø 3 mm, 2 banana plugs



GF1T-E3: Insertion probe Ø 3 mm, BNC-connector



GF1T-E1.5: Insertion probe Ø 1.5 mm, loose ends with wire end ferrules



TECHNICAL SPECIFICATION

Sensor element:	Pt1000 2-wire
Measuring range:	-70 ... +250 °C (probe tip), option -MB4: : -200 ...+250°C
Sensor sheath:	AISI 316 (1.4404)
Handle:	silicone (up to max. +250 °C)
Cable:	1 meter silicone, permanently up to +230 °C / short-term approx. 2 hours per application up to +250 °C), other length on request
Connectors:	BNC-connector / 2 banana plugs / Jack plug Ø 3.5 mm gold-plated / loose ends with wire end ferrules
Response time T ₉₀ :	Ø 3 mm: water 0.4 m/s < 2 s, air 2 m/s approx. 40 s Ø 1.5 mm: water 0.4 m/s < 1 s, air 2 m/s approx. 12 s
Protection class:	IP67 including BNC-connector when plugged in (exception: jack connector, banana-plugs and loose ends)

Accuracy (derived from EN 60751):

Class	Tolerance values	Range of validity	
B	± 0.3 °C ±0.5 %	-50 ... +250 °C	
A	± 0.15 °C ±0.2 %	-30 ... +250 °C	option for E1.5
AA	± 0.1 °C ±0.17 %	0 ... +150 °C	not for E1.5

Directives and standards:

The handle-probe confirm to following European Directives:
2011/65/EU RoHS

Applied harmonized standards:
EN IEC 63000:2018

STANDARD ARTICLES

GF1T-E1.5-A-BNC	Insertion probe Ø1.5 mm cl. A, BNC plug	art.no. 609646
GF1T-E3-AA-BNC	Insertion probe Ø3 mm cl. AA, BNC plug	art.no. 609640
GF1T-T3-B-BS	Immersion probe Ø3 mm cl. B, banana plug	art.no. 611088
GF1T-T3-AA-BNC	Immersion probe Ø3 mm cl. AA, BNC plug	art.no. 609550
GF1T-T3-B-BNC	Immersion probe Ø3 mm cl. B, BNC plug	art.no. 609549
GF1T-T3-B-BNC-MB4	Immersion probe Ø3 mm cl. B, BNC plug	art.no. 611763
GF1T-T3-B-LE	Immersion probe Ø3 mm cl. B, loose ends	art.no. 609547

Many others available on request

NOTES



In the case of Insertion probe, the risk of puncture injuries is caused by the pointed sensor design



To avoid electrical shock, do not use this probe when voltages exceeding 24 V ac rms or 60 V dc are present. The probe tip is electrically connected to the output terminals.



The sensor sheath of the handle-probe from the tip up to 1 cm before the handle is designed for continuous contact with foodstuffs in accordance with Regulation (EC) 1935/2004.

Handle, cable + connectors are not designed for permanent food contact.