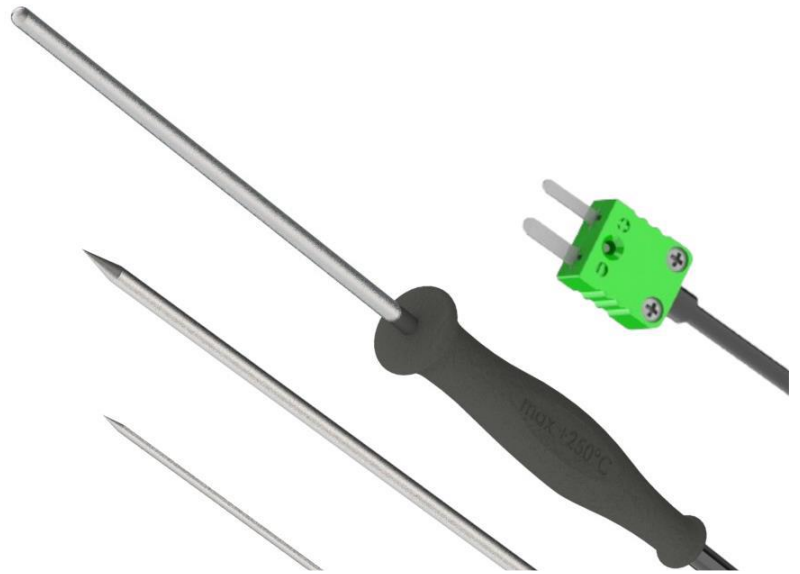


Thermocouple Type K handle-probe

- Compact, pen-type handle with high operating temperature up to 250 °C
- 3 probe types:
Immersion \varnothing 3mm,
injection \varnothing 3mm,
needle type injection \varnothing 1.5 mm
- Very fast!
- Type K probe with flat pin plug (e.g. for ECO 130, PRO 13x.2)
- Water-protected according to IP65 and IP67



DESCRIPTION

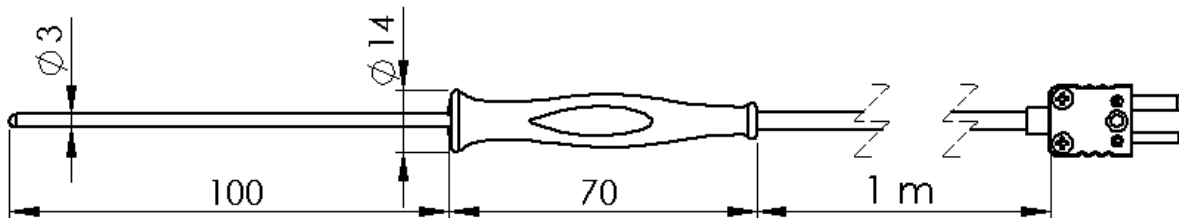
The GF 1TK – compact-handle-probe is designed for use in gases, liquids and soft materials. The probe is made of stainless steel, which is robust and durable.

The cable is optionally terminated with standard miniature flat plug or loose ends.

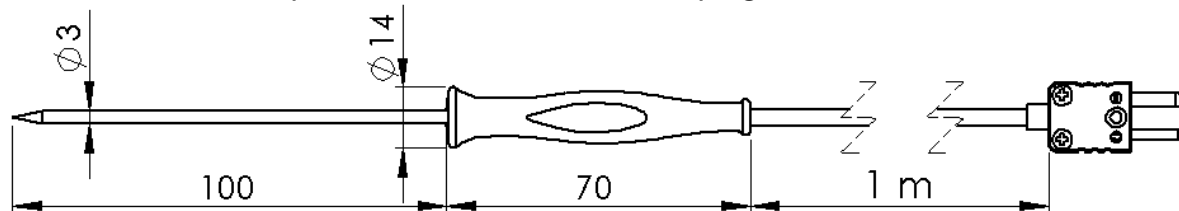
The compact pen type silicone-handle is high temperature resistant up to 250°C which makes it extremely versatile.

Mechanical design / dimensions:

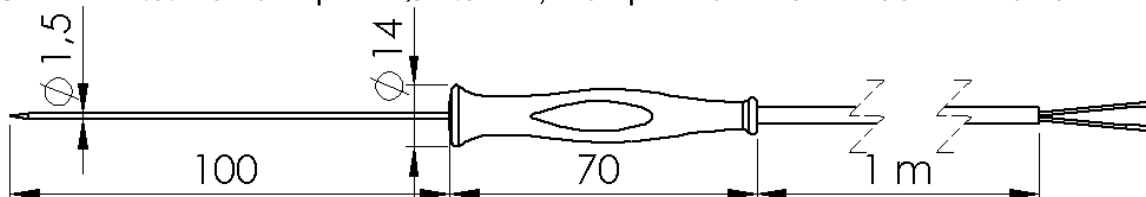
GF1TK-T3: Immersion probe \varnothing 3 mm, miniature flat plug



GF1TK-E3: Insertion probe \varnothing 3 mm, miniature flat plug



GF1TK-E1.5: Insertion probe \varnothing 1.5 mm, example with loose ends and ferrules



TECHNICAL SPECIFICATION

Sensor element:	Type K (NiCr-Ni), junction welded to sheath
Measuring range:	-65 ... +550 °C (probe tip)
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:	miniature flat plug / 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:	Sensor sheath and Handle IP65 and IP67

Accuracy (derived from DIN EN 60584-1:2014-07)

class	Tolerance values	Temperature range of validity
1	$\pm 1.5 \text{ °C}$ or $0.004 \times t $	-40 ... +550 °C

Directives and standards:

The handle-probe confirm to following European Directives:
2011/65/EU RoHS
Applied harmonized standards:
EN IEC 63000:2018

STANDARD ARTICLES

GF1TK-E3	Insertion probe Ø3 mm, miniature flat plug	art.no. 609697
GF1TK-E1.5	Insertion probe Ø1.5 mm, miniature flat plug	art.no. 609699
GF1TK-E1.5-LE	Insertion probe Ø1.5 mm, loose ends	art.no. 609700
GF1TK-T3	Immersion probe Ø3 mm, miniature flat plug	art.no. 609695

Many others available on request

NOTES



DANGER

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



DANGER

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.