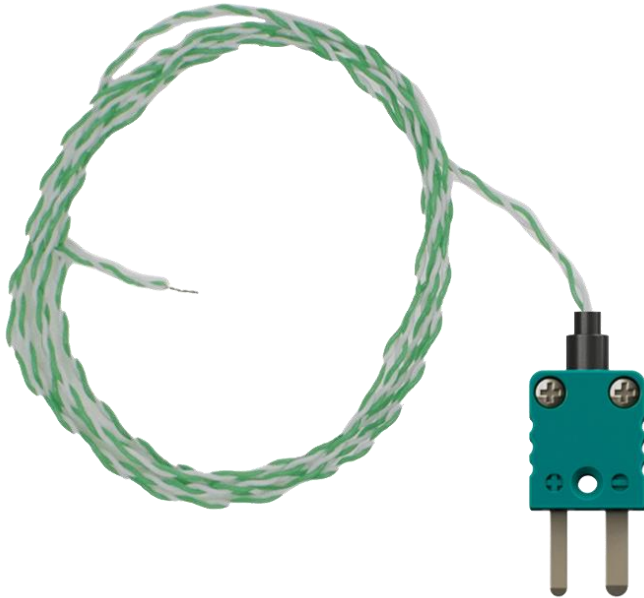


GTF 300 & GTF 300 GS



Type K wire probes



- **Quick-response measurements**
- For air, gases, diminutive surfaces & liquids (GTF 300 only)
- Various measuring tips available:
 - Twisted & welded
 - Non-twisted/welded
 - With weld bead
- Teflon- or glass filament insulated
- **Wide measurement range:**
 - Teflon-insulated:
GTF 300: -65 ... +300 °C
 - Glass filament insulated:
GTF 300 GS: -65 ... +400 °C
- **Precise: Class 1**

DESCRIPTION

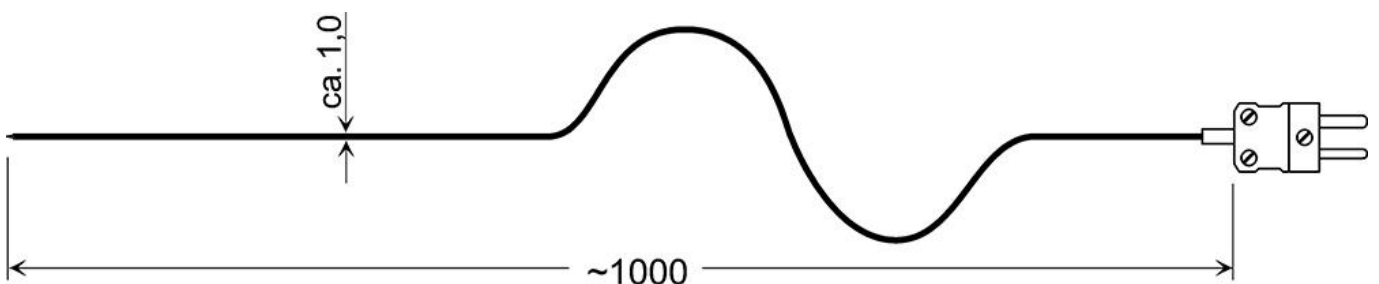
These high-quality Type K thermocouples (NiCr-NiAl) are specifically designed for applications that require extremely fast response times and maximum flexibility. With a fine thermocouple wire diameter of just 0.2 mm and a fast response time of approximately 0.3 seconds, they enable lightning-fast measurements in air, gases, on very small surfaces, and in liquids (GTF 300 only).

Two insulation variants are available for optimal adaptation to the application site: The **Teflon-insulated version (GTF 300)** is waterproof and chemically resistant, making it ideal for demanding measurements up to +300 °C. The **glass filament insulated version (GTF 300 GS)** is optimized for dry environments and covers an extended temperature range up to +400 °C.

All probes comply with accuracy class 1 – the highest accuracy class for thermocouples – and are available with three different tip configurations (twisted/welded, untwisted welded, or with a weld bead). Connection is available via a miniature flat plug (optionally with kink protection) or loose ends with wire end ferrules, available in cable lengths of 1, 2, 5, or 10 meters (other lengths available upon request).

When combined with a suitable display device (see section “Suitable instruments”), the temperature probes can optionally be equipped with DAkkS/ACCREDIA-accredited calibration ISO/IEC 17025 or with ISO 9001 calibration.

Technical drawing (with 1-meter probe cable and miniature flat plug):



Teflon-insulated

GTF300-00
Measuring tip
twisted/welded



GTF300-UV
Measuring tip
non-twisted/welded



GTF300-SP
Measuring tip
with weld bead



Glass filament insulated

GTF300GS-00
Measuring tip
twisted/welded



GTF300GS-UV
Measuring tip
non-twisted/welded



GTF300GS-SP
Measuring tip
with weld bead



TECHNICAL SPECIFICATION

	GTF 300	GTF 300 GS
Sensor	Ø 0.2 mm thermocouple wires Type K (NiCr-NiAl)	
Measuring range	-65 ... +300 °C	-65 ... +400 °C
Accuracy	Class 1: ± 1.5 °C (-40 °C to +375 °C) or 0.40 % (+375 °C to +1000 °C)	
Response time (T ₉₀)	Water 0.4 m/s approx. 0.3 s	
Cable	Teflon-insulated, up to max. +250 °C, highly flexible	Glass filament insulated
Dimensions	Ø approx. 1 mm, L = 1 m, 2 m, 5 m, 10 m	
Connection	Miniature flat-pin plug	Miniature flat-pin plug with kink protection Loose ends with wire end ferrules
Application	Liquids	Not for liquids air, gases, diminutive surfaces

ORDER CODES

Type K wire probe - Teflon-insulated

GTF300 - 1 - 2 - 3

1	Connection	
		Miniature flat-pin plug (standard)
	KS	Miniature flat-pin plug with kink protection
	LE	Loose ends with wire end ferrules
2	Wire probe length	
	L01	1 m (standard)
	L02	2 m
	L05	5 m
	L10	10 m
3	Option	
	00	Measuring tip twisted & welded
	UV	Measuring tip untwisted welded
	SP	Measuring tip with weld bead

Type K wire probe - glass filament insulated

GTF300GS - 1 - 2 - 3

1	Connection	
		Miniature flat-pin plug with kink protection (standard)
	LE	Loose ends with wire end ferrules
2	Wire probe length	
	L01	1 m (standard)
	L02	2 m
	L05	5 m
	L10	10 m
3	Option	
	00	Measuring tip twisted & welded
	UV	Measuring tip untwisted welded
	SP	Measuring tip with weld bead

STANDARD ARTICLES

GTF300-L01-00	Type K wire probe, Teflon-insulated, miniature flat plug, measuring tip twisted & welded, 1 m, -65 ... +300 °C, Class 1	Art. No. 600072
GTF300-L01-UV	Type K wire probe, Teflon-insulated, miniature flat plug, measuring tip non-twisted welded, 1 m, -65 ... +300 °C, Class 1	Art. No. 600081
GTF300-L01-SP	Type K wire probe, Teflon-insulated, miniature flat plug, measuring tip with weld bead, 1 m, -65 ... +300 °C, Class 1	Art. No. 605973
GTF300GS-L01-00	Type K wire probe, glass filament insulated, miniature flat plug with kink protection, measuring tip twisted & welded, 1 m, -65 ... +400 °C, Class 1	Art. No. 602554
GTF300GS-L01-UV	Type K wire probe, glass filament insulated, miniature flat plug with kink protection, measuring tip non-twisted welded, 1 m, -65 ... +400 °C, Class 1	Art. No. 607893
GTF300GS-L01-SP	Type K wire probe, glass filament insulated, miniature flat plug with kink protection, measuring tip with weld bead, 1 m, -65 ... +400 °C, Class 1	Art. No. 606208

SUITABLE INSTRUMENTS

PRO 131.2	2-channel handheld temperature meter for thermocouple probes, graphic display. Device in carton box, incl. batteries, QuickStart, test protocol, without temperature probe	Art. No. 486119
PRO 135.2	2-channel handheld temperature meter/data logger for thermocouple probes, graphic display. Device in carton box, incl. batteries, QuickStart, test protocol, USB cable, without temperature probe. Free Software ProXware downloadable from Senseca website	Art. No. 486118
ECO 130	Type K thermocouple quick response thermometer (formerly G 1200). Device in carton box, incl. batteries, manual, test protocol, without probe	Art. No. 486708
ECO 130.2	Type K quick response 2-channel-alarm-thermometer (formerly G 1202). Device in carton box, incl. batteries, manual, test protocol, without probe	Art. No. 486732