

Core temperature and food probe



- For insertion into food
- **Small diameter:** from $\varnothing$ 1.5mm
- **Precise:** Class A/B (Platinum) or class 1 (Type K)
- **Ergonomic** compact Teflon handle
- Made of durable **V4A stainless steel**
 - Food-safe
 - Corrosion-resistant
- Wide measuring range
- **Water protected** according to IP65

DESCRIPTION

Needle-shaped insertion tip: ideal for commercial kitchens, bakeries, butcher shops, etc.

These precision insertion probes were specially developed for the demanding requirements of the food industry and professional catering. They enable reliable core temperature monitoring to ensure the highest quality standards and compliance with HACCP guidelines. All GES 20 probes feature a robust insertion tip made of food-grade stainless steel (V4A), which is easy to clean and resistant to aggressive cleaning agents. This makes them ideal for meat products, frozen goods, baked goods, and for monitoring cooling and cooking processes. The splash-proof housing and heat-resistant PTFE cable guarantee a long service life, even under extreme conditions. The probe tip dimensions represent a balanced solution between the requirements for response speed and robustness.

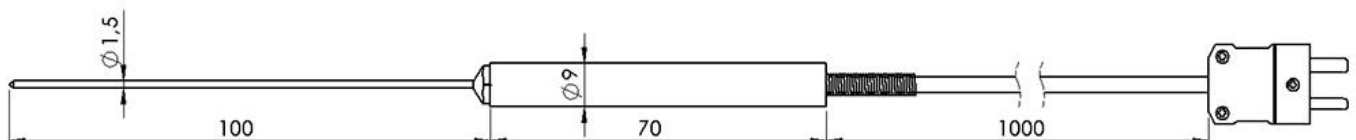
Available with high-precision Pt100/Pt1000 sensors for maximum accuracy or with a robust type K thermocouple for particularly high temperatures.

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

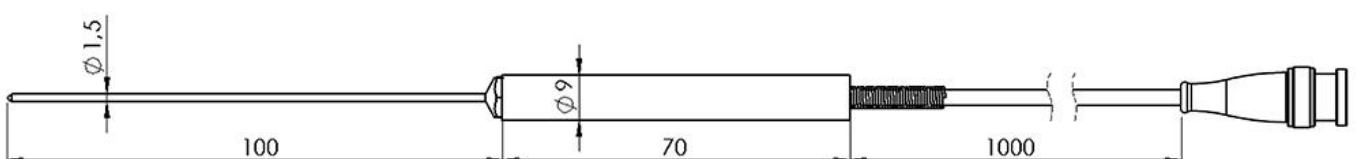
Probe tip:



e.g.: GES20-K-1-L01:



e.g.: GES20-T-[A/B]-BNC-L01[-MB2]:



TECHNICAL SPECIFICATIONS

Sensor	Thermocouple Type K (NiCr-NiAl) IEC 60584-2, not potential-free; Thin film sensor Pt1000 (2-wire), Pt1000 (4-wire starting from handle), Pt100 (4-wire starting from handle)		
Measuring range	Type K: -40 ... +550°C Pt100/Pt1000: -70 ... +250°C Pt100/Pt1000 -MB2: -200 ... +250°C		
Accuracy	Type K: class 1: ±1.5°C (-40°C to +375°C) or 0.40% (+375°C to +1000°C) Pt100 and Pt1000: class DIN A or class DIN B		
Response time (T ₉₀)	Water 0.4 m/s < 1 s, Air 2 m/s approx. 12s		
Cable	Teflon (PTFE, max. 250°C), L = 1 m (standard) or 2 m		
Connection	Miniature flat-pin plug (Type K only) BNC plug (Pt1000 2-wire only) M12 connector (Pt100 4-wire only) Loose ends with wire end ferrules		
Dimensions	Probe: Ø 1.5 mm / 1.6 mm, Handle: Ø 9 mm,	L = 100 mm / 130 mm (Type K only) L = 70 mm (95 mm with kink protection)	
Weight	Approx. 50 g		
Materials	Probe tube: AISI 316 (Material 1.4401) - V4A stainless steel Handle: Teflon (PTFE, max. 250°C) with stainless steel kink protection Cable: Teflon (PTFE, max. 250°C)		
Protection degree	IP65		
Application	Insertion		

ORDER CODES

Core temperature and food probe with compact Teflon handle

GES20 - 1 - 2 - 3 - 4 - 5 - 6 - 7

1	Sensor element		
	K	Type K (NiCr-NiAl)	
	T	Pt1000 (2-wire)	
	T4H	Pt1000 (4-wire starting from handle)	
	P4	Pt100 (4-wire starting from handle)	
2	Accuracy		
	1	Class 1	- Type K only
	A	Class DIN A	- Pt100 / Pt1000 only
	B	Class DIN B	- Pt100 / Pt1000 only
3	Connection		
		Miniature flat-pin plug	- Type K
	BNC	BNC plug (e.g. ECO 120 / G 1700)	- 2-wire only
	M12	M12 connector 4-pin (e.g. PRO 11X, pinning: 1,2-Pt100-3,4)	- Pt100 (4-wire) only
	LE	Loose ends with wire end ferrules	
4	Cable length		
	L01	1 m Teflon (PTFE) cable (standard)	
	L02	2 m Teflon (PTFE) cable	
5	Measuring range		
		-40 ... +550°C	- Type K only
		-70 ... +250°C	- Pt100 / Pt1000 only
	MB2	-200 ... +250 °C (specification of accuracy class A only down to -90 °C)	
6	Probe tube		
		V4A tube, Ø 1,5 mm	
	D1.6	V4A tube, Ø 1,6 mm	- Pt100 only
7	Probe tube length		
		100 mm	
	130	130 mm	- Type K only

STANDARD ARTICLES

GES20-K-1-L01	Core temperature and food probe type K, class 1, compact Teflon handle, miniature flat-pin plug, 1 m PTFE cable, Measuring range -40 ... +550°C, probe tube: Ø 1.5 mm, L = 100 mm	Art. No. 602591
GES20-K-1-L01-130	Core temperature and food probe type K, class 1, compact Teflon handle, miniature flat-pin plug, 1 m PTFE cable, Measuring range -40 ... +550°C, probe tube: Ø 1.5 mm, L = 130 mm	Art. No. 488420
GES20-T-B-BNC-L01-MB2	Core temperature and food probe Pt1000 (2-wire), class B, compact Teflon handle, BNC plug, 1 m PTFE cable, Measuring range -200 ... +250°C, probe tube: Ø 1.5 mm, L = 100 mm	Art. No. 607377

SUITABLE INSTRUMENTS

For GES 20 with miniature flat-pin plug

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

For GES 20 with BNC plug

ECO 120	Waterproof Pt1000 2-wire alarm thermometer for BNC exchangeable sensors. Device in carton box, incl. 2 x AA alkaline batteries, manual, test report	Art. No. 486749
ECO 120-Gourmet	Waterproof Pt1000 2-wire alarm thermometer for BNC exchangeable sensors, suitable for cooking, baking and barbecue with removable protective rubber cover and 2 strong magnets. Device in carton box, incl. 2 x AA alkaline batteries, manual, test report	Art. No. 489728

For GES 20 with M12 connector

PRO 111	High precision thermometer for Pt100 4 wire probes, M12 socket 4-pole, graphic display. Device in carton box, incl. 4 x AA alkaline batteries, QuickStart, test-protocol	Art. No. 486650
PRO 115	High precision thermometer for Pt100 4 wire probes, M12 socket 4-pole, graphic display. Device in carton box, incl. 4 x AA alkaline batteries, QuickStart, test-protocol, USB cable. Free Software ProXware downloadable from Senseca website	Art. No. 486651