

GMF 200 & GMF 250



Magnetic surface probe



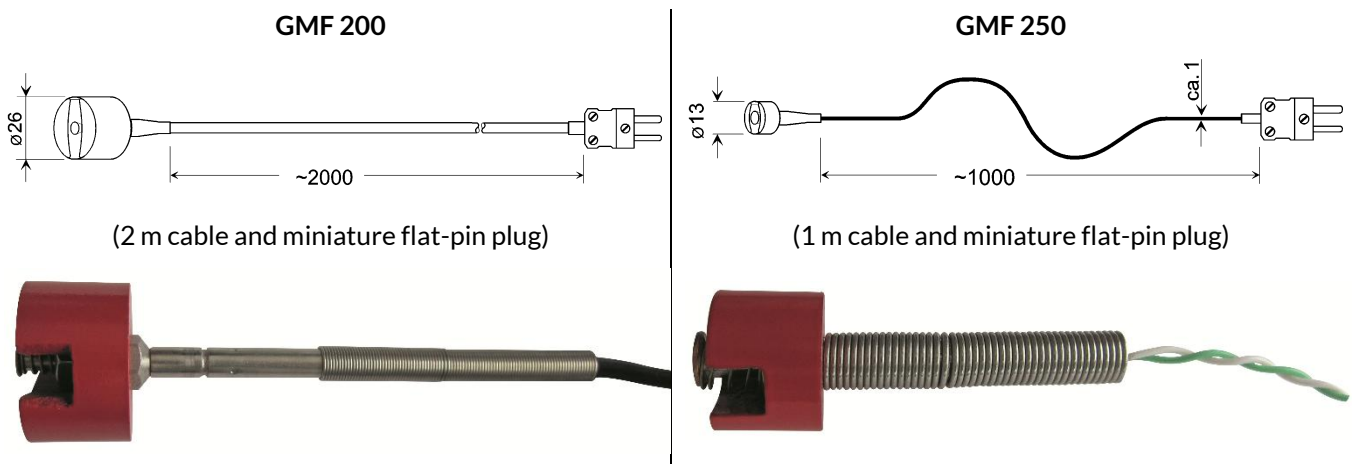
- Measure immediately: self-adhesive on ferro-magnetic materials – no mounting required, hands free during measuring
- Quick to set up at different measurement points: ideal for service and commissioning
- Reliable surface contact: spring-loaded copper measuring tip
- Robust: suitable for everyday use in trade and industry
- Precise: Class 1 (Type K)
DIN class B/A/AA (Pt)
- Easy to connect: common connection/connector variants

DESCRIPTION

The magnetic GMF 200 and GMF 250 surface probes enable fast and reliable temperature measurement on ferromagnetic surfaces. Thanks to their magnetic mounting and spring-loaded sensing tip, they can be easily attached to different measurement points without the need for complex installation efforts and provide reproducible measurement values. Various configuration options allow for easy integration into existing processes/systems and adaptation to the specific application.

All Type K probes comply with accuracy class 1 - the highest accuracy class for thermocouples - and are available with miniature flat-pin plugs or loose ends with wire ferrules. The larger GMF 200 variant not only offers a greater magnetic holding force but is also available with Class B/A/AA Pt100/Pt1000 sensor elements and corresponding connectors in addition to a Type K thermocouple.

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 SPECIFICATIONS

	GMF 200	GMF 250
Sensor	Type K (NiCr-NiAl) Pt100 (3-wire) Pt100 (4-wire) Pt1000 (2-wire)	
Measuring range	Type K: -65 ... +200 °C Pt100/Pt1000: -50 ... +200 °C	-65 ... +250 °C -
Accuracy	Class 1: ± 1.5 °C (-40 °C to +375 °C) or 0.40 % (+375 °C to +1000 °C) Pt 100/Pt 1000: DIN class B/A/AA	
Response Time (T ₉₀)	approx. 5 s	
Cable	Silicone cable L = 1 m, 2 m, 5 m (other lengths on request)	Teflon-insulated twisted cable
Dimensions	Magnet Ø26 mm spring-loaded CU plate Ø5 mm	Magnet Ø15 mm
Weight	approx. 110 g (2 m cable, mini flat-pin plug)	approx. 20 g (1 m cable, mini flat-pin plug)
Connection	Jack connector Ø3.5 mm – Pt1000 (2-wire), Mini-DIN plug – Pt 100 (4-wire)	Miniature flat-pin plug Loose ends with wire end ferrules
Application	Surfaces	

ORDER CODES

Magnetic surface probe - large

GMF200 - 1 - 2 - 3 - 4

1	Sensor element	
		Type K (NiCr-NiAl)
	P3	Pt100 (3-wire)
	P4	Pt100 (4-wire)
2	Accuracy	
		Class 1 - Type K (NiCr-NiAl)
	B	DIN class B - Pt100 / Pt1000)
	A	DIN class A - Pt100 / Pt1000)
3	Connection	
		Miniature flat-pin plug - Type K (NiCr-NiAl)
	KS	Jack connector Ø3,5 mm - Pt1000 (2-wire)
	MD	Mini-DIN plug, 4-wire - Pt100 (4-wire)
4	Cable length	
	L01	1 m
	L02	2 m
	L05	5 m
	Lxx	Other lengths on request

Magnetic surface probe – small, Type K (class 1)

GMF250 - 1 - 2

1	Connection	
		Miniature flat-pin plug
	LE	Loose ends with wire end ferrules
2	Cable length	
	L01	1 m
	L02	2 m
	L05	5 m
	Lxx	Other lengths on request

STANDARD ARTICLES

- GMF200-L02 Large magnetic Type K surface probe, class 1, miniature flat-pin plug, 2 m silicon cable, -65 ... +200 °C **Art. No. 601377**
- GMF250-L01 Small magnetic Type K surface probe, class 1, miniature flat-pin plug, 1 m Teflon-insulated twisted cable, -65 ... +250 °C **Art. No. 600071**

SUITABLE INSTRUMENTS

For GMF 200 / GMF 250 with miniature flat connector (Type K)

- 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**