

INDUSTRY-TEMPERATURE PROBE



**GTF 111**

Temperature probe with M12 connection

**General:**

The GTF 111 is a temperature sensor without thread with a practical M12 connector. The measurement is carried out by means of resistance temperature sensors Pt100 or Pt1000.

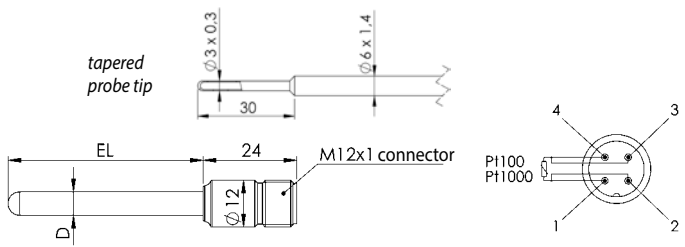
**Specifications:**

<b>Sensor element:</b>	Pt100 or Pt1000 (4-wire)
<b>Temperature range:</b>	-50 ... +250 °C (probe tip)
<b>Accuracy:</b>	Class B, Class A, Class AA, Class 1/10 DIN B
<b>Response time:</b>	FS Ø 3 mm: $T_{90} \leq 1.5$ s FS Ø 6 mm: $T_{90} \leq 7.4$ s
<b>Process pressure:</b>	max. 50 bar
<b>Electrical connection:</b>	M12 connector, 4-pole
<b>Thermowell and tip:</b>	1.4404 (V4A)
<b>Protection:</b>	IP67 / IP69K
<b>Ambient temperature:</b>	-20 ... +85 °C

GTF111 - 1 - 2 - 3 - 4 - 5

Greisinger	
1.	Sensor element
	P Pt100 (4-wire)
	T Pt1000 (4-wire)
2.	Accuracy
	B DIN class B
	A DIN class A
	D DIN class AA (1/3 DIN class B)
	Z 1/10 DIN cl. B (only Pt100)
3.	Measuring range
	MB1 -50 ... +250 °C (M12-connector max. 85 °C), More measuring ranges on request
	MBS -50 ... +100 °C (M12-connector max. 85 °C)
4.	Installation length
	0050 50 mm
	0100 100 mm
	0150 150 mm
	0250 250 mm
5.	Probe diameter
	D60 Ø6 mm, Without taper
	D30 Ø6 mm, and tapered probe tip Ø3 mm L = 30 mm
	D80 Ø8 mm, Without taper

M12 connecting cable see page 64



Special lengths, special sheath materials, etc. upon request.



**GTF 112**

Temperature probe with M12 connection

**General:**

The GTF 112 is a temperature sensor with threaded process with a practical M12 connector. The measurement is performed by means of resistance temperature sensors Pt100 or Pt1000.

**Specifications:**

<b>Sensor element:</b>	Pt100 or Pt1000 (4-wire)
<b>Temperature range:</b>	-50 ... +250 °C (probe tip)
<b>Accuracy:</b>	Class B, class A, class AA, class 1/10 DIN B
<b>Response time:</b>	FS Ø 3 mm: $T_{90} \leq 1.5$ s FS Ø 6 mm: $T_{90} \leq 7.4$ s
<b>Process pressure:</b>	max. 50 bar
<b>Electrical connection:</b>	M12 connector, 4-pole
<b>Thermowell and tip:</b>	1.4404 (V4A)
<b>Protection:</b>	IP67 / IP69K
<b>Ambient temperature:</b>	-20 ... +85 °C

GTF112 - 1 - 2 - 3 - 4 - 5 - 6 - 7

Greisinger	
1.	Sensor element
	P Pt100 (4-wire)
	T Pt1000 (4-wire)
	T2 Pt1000 (2-wire)
2.	Accuracy
	B DIN class B
	A DIN class A
	D DIN class AA (1/3 DIN class B)
	Z 1/10 DIN cl. B (only Pt100)
3.	Measuring range
	MB0 -50 ... +100 °C
	MB1 -50 ... +250 °C, Only with extension tube HL = 50 mm
	MBS -50 ... +300 °C
4.	Fitting length EL
	0050 50 mm
	0100 100 mm
	0150 150 mm
5.	Probe diameter D
	D60 Ø6 mm, Without taper
	D30 Ø6 mm, and tapered probe tip Ø3 mm L = 30 mm
	D30 Ø3 mm
	D120 Ø12 mm
6.	Thread
	G1 G ½
	G2 G ¼
	G4 G ⅜
	M10 M10x1
7.	Extension tube
	000 No extension tube, Only up to 100 °C -> MB0
	050 50 mm
	100 100 mm

Type with neck tube

