

Stick-in resistance temperature probe, M12 connection

GTF111P

Introduction

GTF111P is a stick-in resistance temperature sensor in a 3mm (other diameters available) stainless steel tube with 4-pole M12 plug. It is available as Pt100 or Pt1000 (1/10B, AA, A or B class), thinfilm or wire-wound in custom length.

Three temperature ranges (250/400/600°C) are available to allow best adaption to process requirements between maximum temperature and response times.



High flexibility

Pt100 and Pt1000 elements available in class AA, A, B or 1/10B as thin-film or wire-wound sensor.



Robust design

6mm protective tube in custom length



Faster response time

Available as 3mm reduced tip.



Protection class

IP67/69K (with suitable cable/connector)

Technical Specifications

Process Condition

Media temperature	-200...+600 °C Sensor element dependend. See table
Pressure rating	50 bar max.

Measurement

Temperature sensor	Pt1000, PT100, Class 1/10B, AA, A, B For Pt100: Pt100 For Pt1000: Pt1000 For B class DIN EN 60751 (-50...+500°C, thin-film): B For A class DIN EN 60751 (-30...+300°C, thin film): A For A class DIN EN 60751 (-100...+450°C, wire-wound): A For AA class DIN EN 60751 (0...+150°C, thin film): AA For 1/10B class (-50...+100°C, wire-wound): 1/10B
Measuring principle	RTD

Electrical Connection

Electrical connection type	4-pole M12 (-20...+85°C, max), IP67/IP69K)
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Probe

Material	Stainless steel 1.4404
Probe Diameter	For 6 mm: 6 mm
Probe length	For 50 mm: 50 mm For 100 mm: 100 mm For 150 mm: 150 mm For 250 mm: 250 mm For 500 mm: 500 mm
Cable	For 4-wire: 4-wire

Order Code

GTF111P-

1.

 -

2.

 -

3.

 -

4.

 -

5.

 -

6.

i Enter the code for your selected option in the order code field above. The numbering corresponds to the sets from which you can choose. Note that some options can only be used in certain combinations.

Nr.	Code	Description
1. Operating temperature	LT	-200...+250°C at sensors tip
	MT	-200...+400°C at sensors tip
	HT	-200...+600°C at sensors tip
2. Measuring element	P	Pt100
	T	Pt1000
3. Valid range	B-T	B class DIN EN 60751 (-50...+500°C, thin-film)
	A-T	A class DIN EN 60751 (-30...+300°C, thin film)
	A-W	A class DIN EN 60751 (-100...+450°C, wire-wound)
	AA-T	AA class DIN EN 60751 (0...+150°C, thin film)
	1/10B-W	1/10B class (-50...+100°C, wire-wound)
4. Probe diameter Ø	3/6	Ø6 mm, and tapered probe tip Ø3 mm L = 30 mm
	6	6 mm
5. Installation length	0050	50 mm
	0100	100 mm
	0150	150 mm
	0250	250 mm
	0500	500 mm
	-xxxx	each additional 100 mm
6. Connection sensor element	4L	4-wire

Features

Sensor element

Available RTD accuracy classes acc. to IEC751/EN60751:

Note: Wire wound sensor and 1/10 class B elements are available vor Pt100, only.

- B -196...+600°C or -50...+500°C
- A -100...+450°C or -30...+300°C
- AA(1/3B) - 50...+250°C or 0...+150°C

Other:

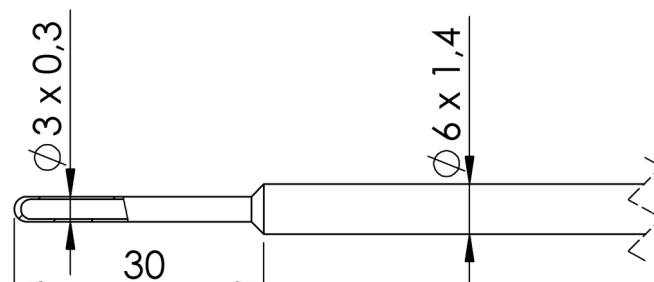
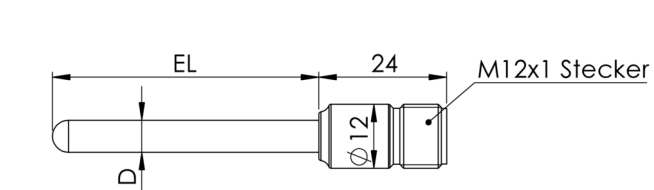
- 1/10B -50...+100°C

Protective tube

Available in 6mm diameter (or 3mm reduced tip) in lenght up to 1000mm in 5mm minmum steppings.

Instructions

Dimensions



6 to 3mm reduced tip

Connection diagram

