

Screw in resistance temperature probe

GTF102P

Introduction

GTF102P is a screw-in resistance temperature sensor in a 3mm (other diameters available) stainless steel tube with fixed cable.

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.

Cable can be configured silicon, pvc, ptfe or glass fibre insulated. The cable is protected by an extension tube and supported by a coil spring in the standard version (also available without extension tube and coil spring).



High flexibility

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



Robust design

3/4/5 or mm protective tube in custom length with process thread.



Faster response time

LT or MT version in 3mm for fast response times.



View product on our website

prod.senseca.apprunner.info/en/product/gtf102p-gtf102

Technical Specifications

Process Condition

Media temperature	-200...+600 °C
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Measurement

Temperature sensor	Pt100, Pt1000, Class 1/10B, AA, A, B
Measuring principle	RTD

Electrical Connection

Electrical connection type	loose ends
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Probe

Cable	PVC, PTFE, Silicon, Flexible fiberglass with steel wire braiding
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Order Code

GTF102P-

1.

2.

3.

4.

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9.

10.

LE

 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. Measuring 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...+150°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)

Nr.	Code	Description
4. Thread	11	G 1/8
	12	G 1/4
	13	G 3/8
	14	G 1/2
	15	G 3/4
	14	G 1/2
5. Probe diameter Ø	3	3 mm
	4	4 mm
	5	5 mm
	6	6 mm
6. Installation length	0050	50 mm
	0100	100 mm
	0150	150 mm
	0250	250 mm
	0500	500 mm
	-xxxx	each additional 100 mm
7. Extension	OKH	without
	550	with extension sleeve and coil spring
8. Cable and length	1-P	1 m PVC cable, -20 ... +105 °C
	x-P	each additional meter (PVC cable)
	1-S	1 m silicone cable, -50 ... +200 °C
	x-S	each additional meter (silicone cable)
	1-T	1 m Teflon cable, -200 ... +250 °C
	x-T	each additional meter (silicone cable)
	1-G	1 m glass fibre, -50 ... +400 °C
	x-G	each additional meter (glass fibre insulated cable)
9. Connection	LE	Loose ends with wire end ferrules
10. Options	00	without
	TU	Teflon covered probe
	WD	Cable transition water proof covered

Features

Constructive design

Available for following max. process temperatures at sensors tip:

LT: -200...250°C (fast response in lower temperature)

MT: -200...+400°C (fast response in medium temperatures)

HT: -200...+600°C (mineral insulated; good response in higher temperatures)

Sensor element

Available RTD elements acc. to IEC751/EN60751:

- 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 3/4" or 6mm diameter in length up to 1000mm in 5mm minimum steppings.

Process threads

G1/2" (standard) or G1/4"

Available cable insulation

Type (allowed temperatures)

- PVC (-20...+105°C)
- Silicon (-50...+200°C)
- Teflon (-200...+250°C)
- Glass-fiber with stainless steel mesh (-50...+400°C)

Instructions

Dimensions

