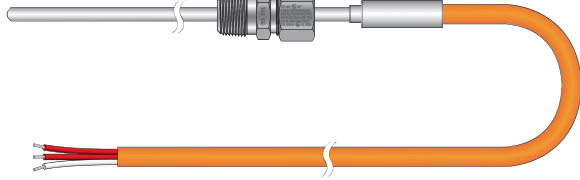


ATEX / IECEx RTD Pt100 Sensors with Pot Seal

RTD Pt100 Resistance Thermometers 3.0mm to 8.0mm dia.

Our ATEX / IECEx approved flexible mineral insulated platinum resistance thermometers utilise, as standard, detector elements with a resistance of 100 ohms @ 0°C and a fundamental interval of 38.5 ohms to IEC 60751. Single and duplex elements are available. An adjustable threaded compression fitting is required to achieve approval.



The above sensor must be installed using the compression fitting supplied to maintain Ex d / Ex tb approval. For Ex ia applications a compression fitting is not required to maintain approval

- Approved to II 2 GD Ex d IIC Gb (Gas) and Ex tb IIIC Db (Dust)
- Also suitable for use in intrinsically safe areas to Ex II 1 GD Ex ia IIC Ga/IIIC Da, see page 25 for details
- Temperature classification T6-T1, see page 26 for stand-off requirements
- Available in B, A, 1/3, 1/5 and 1/10 grade accuracies
- Sheath diameters from 3.0mm to 8.0mm
- PVC or PFA insulated extension cables
- Wide operating temperature range of -100°C to +600°C
- UKAS calibration available



SECTION 1	N° of Elements
1	Simplex
2	Duplex
3	Triplex

SECTION 2	Sheath Diameter (mm)	Sheath Diameter (Inches)
Standard Sizes	3.0mm	0.118"
	4.5mm	0.177"
	6.0mm	0.236"
	8.0mm	0.315"

SECTION 3	N° of Wires	
2	2 wire	
3	3 wire	
4	4 wire	

SECTION 4	Sheath Length
	As Required

SECTION 5	Termination
CE4CL	<p>Other lengths of cable available</p>

SECTION 6	Tolerance of Element (IEC 60751)		
Grade	Accuracy @ 0°C	Accuracy @100°C	Order Code
B	±0.30°C	±0.80°C	R100 - B
A	±0.15°C	±0.35°C	R100 - A
1/3	±0.08°C	±0.19°C	R100 - 1/3
1/5	±0.05°C	±0.15°C	R100 - 1/5
1/10	±0.03°C	±0.12°C	R100 - 1/10

SECTION 7	Extension Cables (please specify length in metres)	
RP	PVC Insulation (105°C) (Termination: CE4CL seal, temperature rating 90°C)	<ul style="list-style-type: none"> RP37 (3-wire) RP47 (4-wire) RP67 (Duplex 3-wire)
RT	PFA Insulation (250°C) (Termination: CE4CLA seal, temperature rating 230°C)	<ul style="list-style-type: none"> RT37 (3-wire) RT47 (4-wire) RT67 (Duplex 3-wire)

SECTION 8	Stainless Steel Adjustable Compression Fittings		
Di.	1/8" BSPT	1/4" BSPT	1/2" BSPT
3.0mm	SFS18T30EX	SFS14T30EX	SFS12T30EX
4.5mm	SFS18T45EX	SFS14T45EX	SFS12T45EX
6.0mm	SFS18T60EX	SFS14T60EX	SFS12T60EX
8.0mm	—	SFS14T80EX	SFS12T80EX

* All cables have 7/0.2mm conductors. If no cable is required, leave this section of the order code blank and the sensor will be supplied with 100mm Kapton "tails".

Other thread sizes are available - please see page 14 for details.

Order Code - Example										
Type N°	I.S. Version (Optional, please see page 25 for details)	N° of Elements (See section 1)	Sheath Diameter (See section 2)	N° of Wires (See section 3)	Sheath Length (mm)	Termination (See section 5)	Resistance Value of Element	Grade of Element (See section 6)	Extension Cable (See section 7)	Compression Fitting (See section 8)
57	- IS	- 1	- 6.0	- 3	- 250	- CE4CL	- R100	- B	- 1m RP37	- SFS12T60EX