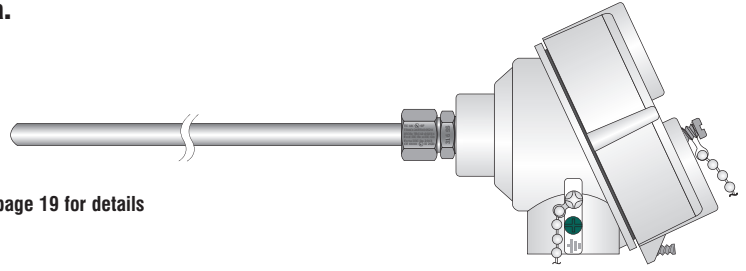


ATEX / IECEx RTD Pt100 Sensors with Terminal Head

RTD Pt100 Resistance Thermometers 4.5mm 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.

- Approved to II 2 GD Ex d IIC Gb (Gas) and Ex tb IIC Db (Dust)
- Also suitable for use in intrinsically safe areas to Ex II 1 G Ex ia IIC Ga, see page 19 for details
- Temperature classification T6-T1, see page 20 for stand-off requirements
- Available in B, A, 1/3, 1/5 and 1/10 grade accuracies
- Sheath diameters from 4.5mm to 8.0mm
- 316 seamless stainless steel sheath (other grades/materials available)
- Die cast alloy or stainless steel terminal heads available
- Wide operating temperature range of -100°C to +600°C
- UKAS calibration available



SECTION 1	N° of Elements	SECTION 2	Sheath Diameter (mm)	Sheath Diameter (inches)	SECTION 3	N° of Wires			SECTION 4	Sheath Length
1	Simplex	Standard Sizes	4.5mm	0.177"	2	2 wire		3 Wire	As Required	
2	Duplex		6.0mm	0.236"	3	3 wire		4 Wire		
3	Triplex		8.0mm	0.315"	4	4 wire				

SECTION 5	Type of Terminal Head (supplied with an M20 cable entry as standard. Other sizes are available - see page 15 for details)		
CE22		CE23	
	<p>Standard Die Cast Alloy Head</p> <p>Weatherproof and explosion proof die cast alloy terminal head with tube and cable entry at right angles to each other and ceramic terminal block. Suitable for simplex, duplex and triplex assemblies.</p> <p><i>Also available in blue (order code CE22B)</i></p>		<p>Standard Stainless Steel Head</p> <p>Weatherproof and explosion proof stainless steel terminal head with tube and cable entry at right angles to each other and ceramic terminal block. Suitable for simplex, duplex and triplex assemblies.</p>
			<p>CE27</p> <p>Dual Cable Entry Die Cast Alloy Head</p> <p>Weatherproof and explosion proof die cast alloy terminal head for large devices with two cable entries at right angles to the tube entry and ceramic terminal block. Suitable for simplex, duplex and triplex assemblies.</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	Optional Stainless Steel Adjustable Compression Fittings		
Dia.	1/8" BSPT	1/4" BSPT	1/2" BSPT
4.5mm	SFS18T45EX	SFS14T45EX	SFS12T45EX
6.0mm	SFS18T60EX	SFS14T60EX	SFS12T60EX
8.0mm	—	SFS14T80EX	SFS12T80EX

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

SECTION 8	Optional 4 to 20mA ATEX Approved Head Mounted Transmitter (please specify range in °C)	
TXISO/ATEX		Microprocessor based head mounted transmitter ATEX rated to Ex ia IIC T6. Fully scaleable and fully linearised for PT100 input. The transmitter is pre-programmed to the required temperature range or, alternatively, it can be re-programmed easily by your PC using our software which should be ordered separately. Other types of transmitter are available on page 19.

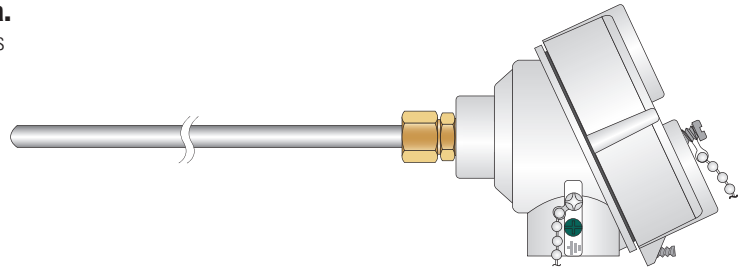
Order Code - Example										
Type N°	I.S. Version (Optional, please see page 19 for details)	N° of Elements (See section 1)	Sheath Diameter (See section 2)	N° of Wires (See section 3)	Sheath Length (mm)	Termination (See section 5)	Resistance Value of Element	Grade of Element (See section 6)	Compression Fitting (Optional, see section 7)	Transmitter (Optional, see section 8)
57	- IS	- 1	- 6.0	- 3	- 450	- CE23	- R100	- B	- SFS14T60EX	- TXISO/ATEX(0/100°C)

ATEX / IECEx RTD Pt100 Sensors with Terminal Head

RTD Pt100 Resistance Thermometers 3.0mm to 8.0mm dia.

Our ATEX / IECEx approved 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.

- Approved to II 3 GD Ex nA IIC Gc (Gas) and Ex tc IIIC Dc (Dust)
- Pt100 element conforming to BS EN 60751 / IEC 60751
- Available in B, A, 1/3, 1/5 and 1/10 grade accuracies
- Sheath diameters from 3.0mm to 8.0mm
- 316 seamless stainless steel sheath (other grades/materials available)
- Die cast alloy or stainless steel IP68 terminal heads available
- Simplex, duplex and triplex sensors available
- Wide operating temperature range of -100°C to +600°C
- UKAS calibration available



SECTION 1	N° of Elements	SECTION 2	Sheath Diameter (mm)	Sheath Diameter (inches)	SECTION 3	N° of Wires			SECTION 4	Sheath Length
1	Simplex	Standard Sizes	3.0mm	0.118"	2	2 wire		3 Wire	As Required	
2	Duplex		4.5mm	0.177"	3	3 wire		4 Wire		
3	Triplex		6.0mm	0.236"	4	4 wire				
			8.0mm	0.315"						

SECTION 5	Type of Terminal Head (supplied with an M20 cable entry as standard. Other sizes are available - please contact us for details)		
CE22		CE23	
	Standard Die Cast Alloy Head Weatherproof and explosion proof die cast alloy terminal head with tube and cable entry at right angles to each other and ceramic terminal block. Suitable for simplex, duplex and triplex assemblies.		Standard Stainless Steel Head Weatherproof and explosion proof stainless steel terminal head with tube and cable entry at right angles to each other and ceramic terminal block. Suitable for simplex, duplex and triplex assemblies.
		CE24	
			Large Stainless Steel Head Weatherproof and explosion proof stainless steel terminal head for large devices with tube and cable entry at right angles to each other and ceramic terminal block. Suitable for simplex, duplex and triplex assemblies.

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	Optional Stainless Steel Adjustable Compression Fittings		
Dia.	1/8" BSPT	1/4" BSPT	1/2" BSPT
3.0mm	SFS18T30	SFS14T30	SFS12T30
4.5mm	SFS18T45	SFS14T45	SFS12T45
6.0mm	SFS18T60	SFS14T60	SFS12T60
8.0mm	—	SFS14T80	SFS12T80

Other thread sizes and materials available. Contact us for details.

SECTION 8	Optional 4 to 20mA ATEX Approved Head Mounted Transmitter (please specify range in °C)	
TXISO/ATEX		Microprocessor based head mounted transmitter ATEX rated to Ex ia IIC T6. Fully scaleable and fully linearised for PT100 input. The transmitter is pre-programmed to the required temperature range or, alternatively, it can be re-programmed easily by your PC using our software which should be ordered separately. Other types of transmitter are available on request.

Order Code - Example									
Type N°	N° of Elements (See section 1)	Sheath Dia. (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)	Compression Fitting (Optional, see section 7)	Transmitter (Optional, see section 8)
37	- 1	- 6.0	- 3	- 450	- CE23	- R100	- B	- SFS14T60	- TXISO/ATEX(0/100°C)