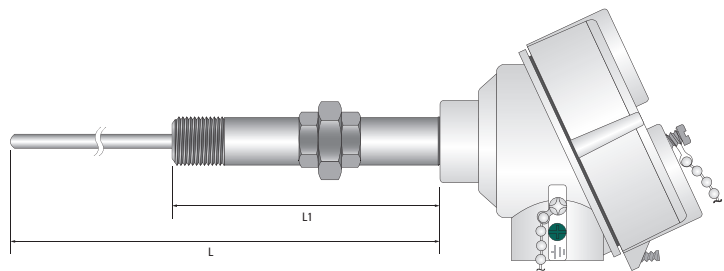


ATEX / IECEx Spring Loaded RTD Pt100 Sensors

RTD Pt100 Resistance Thermometers 4.5mm to 8.0mm dia.

These spring loaded 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. The threaded flameproof extension is ideal for installation in thermowell pockets and where good contact with the process is required.

- 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)
- Spring loaded RTD Pt100 insert with wide choice of process connections
- Wide operating temperature range of -100°C to +600°C
- UKAS calibration available



SECTION 1	N° of Elements	SECTION 2	Sheath Dia. (mm)	Sheath Dia. (inches)	SECTION 3	N° of Wires	SECTION 4	Tolerance of Element (IEC 60751)						
1	Simplex	Standard Sizes	4.5mm	0.177"	2	2 wire		Grade	Accuracy @ 0°C	Accuracy @ 100°C	Order Code			
	2		Duplex	6.0mm		0.236"			3	3 wire	B	±0.30°C	±0.80°C	R100 - B
	3		Triplex	8.0mm		0.315"			4	4 wire	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 5	Type of Terminal Head (supplied with an M20 cable entry as standard. Other sizes are available - see page 15 for details)		
CE22		CE22B	
	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 Die Cast Alloy Head (Blue) 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.
		CE23	
			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.

SECTION 6	Process Connection Thread	SECTION 7	Optional (Rotating Union) Fitting	SECTION 8	Optional 4 to 20mA ATEX Approved Head Mounted Transmitter (please specify range in °C)
Code	Thread Size		Stainless steel rotating union to allow positioning of the terminal head.		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.
12T	1/2" BSPT				
12P	1/2" BSPP				
12N	1/2" NPT				
M20	M20 x 1.5mm				

Order Code - Example												
Type No	I.S. Version (Optional, please see page 19 for details)	N° of Elements (See section 1)	Length 'L' (See diagram)	Sheath Diameter (See section 2)	N° of Wires (See section 3)	Termination (See section 5)	Length 'L1' (See diagram)	Resistance Value of Element	Grade of Element (See section 4)	Process Thread (See section 6)	Rotating Union Fitting (Optional, see section 7)	Transmitter (Optional, see section 8)
58	IS	1	300	4.5	3	CE22	150	R100	B	12P	RUSS	TXISO/ATEX(0/100°C)