

PPB Miniature Embedment/Bearing RTD (Pt100) Sensor

Embedment RTD sensors are most commonly used to monitor the bearing temperatures of rotating equipment. The recognition of a rising temperature can provide an early warning of the breakdown of the lubrication. This early warning allows the process to be shut-down for maintenance before a major breakdown or costly failure occurs.

The miniature bearing sensors provide a cost-effective solution to bearing temperature monitoring. Suitable for use between -25°C and +250°C.

Easy to install, the sensors are inserted directly into the bearing shoes, in or beneath the Babbitt layer. The small diameter tips are commonly epoxy sealed into drilled holes in the shoes, whilst the spring loaded style tip is inserted into a milled hole, the self-locking retaining clip is then pushed into the hole to compress the spring.

The D (Top-Hat) Style Tip is supplied with a retaining clip and spring.

- Cost-effective solution to bearing temperature monitoring
- Easy to install
- Cap and Top-Hat tip styles
- Stainless steel and phosphor bronze tip materials
- Custom extension cable lengths

Thermocouple version: page 30



1	Sensor Type			Code	
	Miniature Embedment/Bearing RTD (Pt100) Sensor			PPB	
2	Detector Elements - Simplex / Duplex			Code	
	Simplex (1 channel)			S	
	Duplex (2 channels) (B, C, D tip styles only)			D	
3	Wiring Configuration			Code	
	2-wire			2	
	3-wire			3	
	4-wire (Simplex only)			4	
4	Grade of Element (BS EN 60751:1996 (FI 38.5Ω))	Accuracy at 0°C	Accuracy at 100°C	Note	Code
	B	± 0.30°C	± 0.80°C	Accuracies quoted are for the element and may not be the actual accuracy of the completed assembly.	B
	A	± 0.15°C	± 0.35°C		A

5	Tip							
	Style	A (Cap)		B (Cap)		C (Cap)		D (Top-Hat)
	Diameter	3.2mm Ø x 8.0mm L		4.0mm Ø x 9.0mm L		6.0mm Ø x 6.0mm L		6.0mm Ø x 6.0mm L Case 5.0mm Ø
	Material	Stainless Steel	Phosphor Bronze	Stainless Steel	Phosphor Bronze	Stainless Steel	Phosphor Bronze	Stainless Steel
	Code	AS	AP	BS	BP	CS	CP	DS

6	Extension Cable Length (mm)	Description	2-wire	3-wire	4-wire	6-wire (Duplex only)
	As required to suit your application (e.g. 1000mm)	Multi cores of stranded 7/0.15mm conductors. Each conductor is PFA insulated. The cores are twisted to form a pair then stainless steel wire braided overall (95% coverage).	PT3215/SSB	PT3315/SSB	PT3415/SSB	PT3615/SSB
		Multi cores of stranded 7/0.15mm conductors. Each conductor is PTFE taped and sintered. The cores are twisted to form a pair, PTFE taped and sintered then stainless steel wire braided overall (95% coverage).	PT9215/SSB	PT9315/SSB	PT9415/SSB	PT9615/SSB
Multi cores of stranded 7/0.20mm conductors. Each conductor is PFA insulated. The cores are twisted to form a pair then PFA sheathed overall.		PT4220	PT4320	PT4420	PT4620	

Order Code (example) **1 2 3 4 5 6**
PPB - S - 2 - B - AS - 1000mm PT4220

Accessories for Top-Hat (D style) Tips

RC846 Retaining Clip

Replacement retaining clip for Top-Hat (D style) tips
8mm OD x 4.0mm ID, 6 prongs



RS126 Spring

Replacement spring for Top-Hat (D style) tips
H 12mm long x 6.0mm Ø

