

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 +260°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.

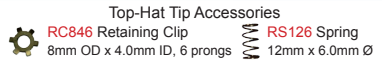


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- Cost-effective solution to bearing temperature monitoring
- Easy to install
- Cap and Top-Hat tip styles
- Stainless steel and phosphor bronze tip materials
- Custom extension cable lengths
- Insulated measuring junction gives high insulation resistance

1	detector elements	code	2	wiring configuration	code	3	grade of element	code
	Simplex (1 channel)	S		2-wire	2		B (± 0.30°C @ 0°C) (± 0.80°C @ 100°C)	B
	Duplex (2 channels)	D		3-wire	3		A (± 0.15°C @ 0°C) (± 0.35°C @ 100°C)	A
				4-wire (Simplex only)	4			

4 tip style & dimensions							
standard Tip		code		top-hat tip		code	
Tip Diameter (D1)	Tip Length (L1)	Phosphor Bronze	Stainless Steel	Tip Diameter (D1)	Tip Length (L1)	Stainless Steel	
3.0mm	8.0mm	-	ZS	6.0mm	6.0mm	THC	
3.2mm (1/8")	8.0mm	AP	AS	6.35mm	6.0mm	THD	
4.0mm	9.0mm	BP	BS				
6.0mm	6.0mm	CP	CS				
6.35mm (1/4")	8.0mm	-	DS				

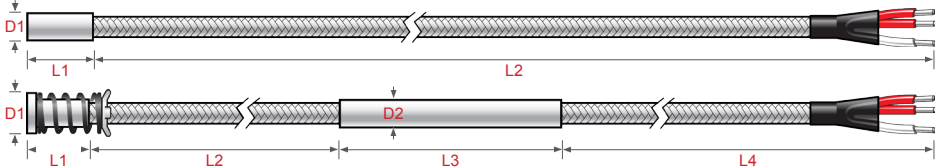


5	extension cable length (L2)	cable construction	3-wire code (simplex 3-wire)	4-wire code (simplex 4-wire)	6-wire code (duplex 3-wire)	8-wire code (duplex 4-wire)
		7/0.15mm conductors, extruded PFA, Twisted, PFA overall	PT4315	PT4415	PT4615	PT4815
	As required to suit your application	7/0.15mm conductors, extruded PFA, Twisted, Stainless Steel Wire Braided overall	PT3315/SSB	PT3415/SSB	PT3615/SSB	PT3815/SSB
	(e.g. 1000mm)	7/0.10mm conductors, extruded PFA, Twisted, Stainless Steel Wire Braided, PFA overall	PT6310	PT6410	PT6610	-
		7/0.10mm conductors, extruded PFA, Twisted, Stainless Steel Wire Braided overall	-	-	PT3610/SSB	-

6 optional oil seal barrier*		7 compatibility (prefix code with required length L4)			
diameter (mm) (D2)	std length (mm) (L3)	simplex 3-wire	simplex 4-wire	duplex 3-wire	duplex 4-wire
3.0	60.0	PT4315, PT3315/SSB	PT4415, PT4415/SSB	-	-
3.2 (1/8")	60.0	PT4315, PT3315/SSB	PT4415, PT4415/SSB	-	-
4.76 (3/16")	60.0	PT4315, PT3315/SSB, PT6315	PT4415, PT3415/SSB, PT6415	PT3610/SSB	-
5.5	60.0	PT4315, PT3315/SSB, PT6315	PT4415, PT3415/SSB, PT6415	PT4615, PT3615/SSB, PT6615, PT3610/SSB	-
6.0	60.0	PT4315, PT4315/SSB, PT6315	PT4415, PT3415/SSB, PT6415	PT4615, PT3615/SSB, PT6615, PT3610/SSB	PT4815, PT3815/SSB
6.35 (1/4")	60.0	PT4315, PT4315/SSB, PT6315	PT4415, PT3415/SSB, PT6415	PT4615, PT3615/SSB, PT6615, PT3610/SSB	PT4815, PT3815/SSB

* Tested to a minimum pressure of 5 bar for a minimum of 30 minutes

Without oil seal barrier L2 = tip to tails. With oil seal barrier L2 = tip to oil seal barrier, L3 = oil seal barrier, L4 = oil seal barrier to tails



order code Example (with oil seal barrier)	1	2	3	4	5 (L2 & Cable Code)	6 (D2 x L3)	7 (L4 & Cable Code)
	PPB	- S	- 3	- B	- AP - 500mm PT4315	- OSB 6.0 x 60.0	- 1000mm PT4315