

PPI RTD (Pt100/Pt1000) Pipe Surface Sensor

The curved surface aluminium bodied sensors are specifically designed for mounting onto the surface of a pipe. The pipe temperature can be used to identify whether the product or medium is flowing.

Supplied as standard as a 4-wire configuration (2 & 3-wire options also available), Simplex, with Grade B or A Pt100 or Pt1000 elements. The extension cable has flexible 7/0.2mm diameter PFA insulated conductors which are twisted then Silicone Rubber sheathed. Suitable for use between temperatures of -30...+200°C.

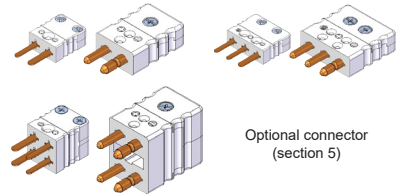
The aluminium body ensures optimal heat transfer from the pipe surface to the measuring element. The thermal conductivity is approximately twice as good as brass and much better than stainless steel. The sensor is compact which results in minimal heat dissipation. The curved sensor suits a wide range of pipe diameters, from 12mm up to 30mm.

The sensors are easy to install: simply strap to the pipe using plastic cable ties, worm-drive hose clips or metal straps (application dependent). It is generally advised to insulate / lag over the sensor to reduce the effect of the ambient temperature on the sensor readings.

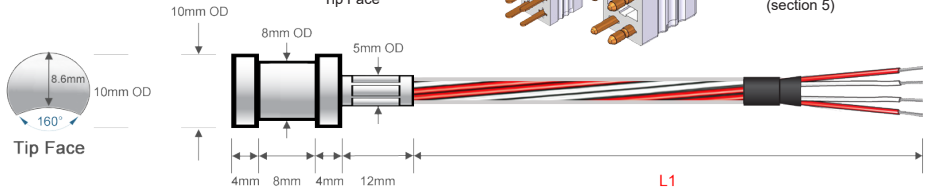
- Aluminium tip for fast response
- 4-wire configuration as standard
- Suits pipe diameters 12...30mm
- Easy to install



Tip Face



Optional connector (section 5)



1	sensor type			code
	RTD (Pt100) Pipe Surface Sensor			PPI
	RTD (Pt1000) Pipe Surface Sensor			PPIK
2	wiring configuration			code
	2-wire			2
	3-wire			3
	4-wire			4
3	grade of element	accuracy at 0°C	accuracy at 100°C	code
	B	± 0.30°C	± 0.80°C	B
	A	± 0.15°C	± 0.35°C	A
4	extension cable length (mm) (L1)			code
	As required to suit your application			e.g. 2000
5	optional rtd connector (supplied attached to cable)			code
	Miniature 2-Pin RTD Plug			FMPU
	Miniature 3-Pin RTD Plug			FMPDU
	Miniature 4-Pin RTD Plug			FMPDU
	Standard 2-Pin RTD Plug			RSPU
	Standard 3-Pin RTD Plug			RSPDU
	Standard 4-Pin RTD Plug			RSPDU

See pages 53-58 for our full range of RTD connectors.

Thermocouple version also available

order code (example) 1 2 3 4
PPI - 4 - B - 2000