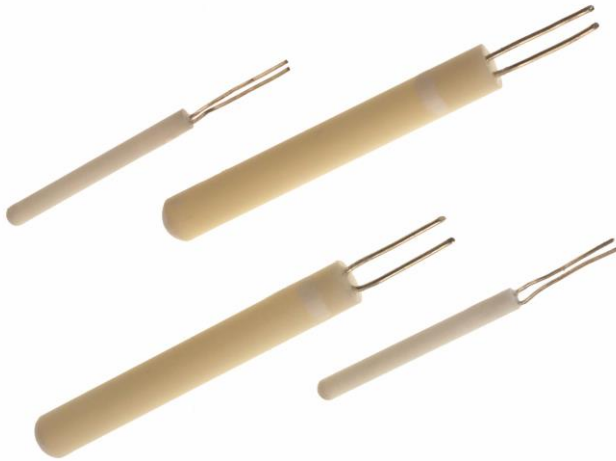


Datasheet

Platinum Resistance Pt100 Wire-Wound Detector Elements



What is the difference between a RTD and PRT sensor?
Nothing. RTD means resistance thermometer detector (the sensing element) and PRT means Platinum resistance thermometer (the whole assembly) i.e. a PRT uses a RTD.

- Pt100 elements to IEC 60751 Class A or B
- 100Ω Ohms @ 0°C
- Single or dual element
- Platinum coil wire-wound construction sealed inside a high purity alumina ceramic body
- Optimum performance & stability
- Temperature range -200°C to +650°C

Specifications:

Sensor type:	Pt100 (100 Ohms @ 0°C)
Construction:	Wire-Wound, 10mm tails
Temperature range:	-200°C to +650°C
Ice point resistance:	100Ω
Fundamental interval (0°C to 100°C):	38.5Ω (nominal)
Self-heating:	0.02 to 0.3°C/mW
Thermal response:	<0.4s (secs. to 63% of final value - in water @ 1m/s)
Measuring current:	1mA
Tolerance Class:	In accordance with IEC 60751 W0.15 (Class A) -100°C to +450°C W0.3 (Class B) -196°C to +660°C

Single element:

Resistance	Tolerance Class	Diameter ('D')	Length ('L')	order code
Pt100	Class B	1.5mm	8mm	XF-986-FAR
Pt100	Class A	1.5mm	8mm	XF-988-FAR
Pt100	Class B	0.9mm	15mm	XF-1475-FAR
Pt100	Class A	0.9mm	15mm	XF-1476-FAR
Pt100	Class B	1.5mm	15mm	XF-987-FAR
Pt100	Class A	1.5mm	15mm	XF-984-FAR
Pt100	Class B	1.5mm	25mm	XF-1473-FAR
Pt100	Class A	1.5mm	25mm	XF-1474-FAR
Pt100	Class B	2.8mm	15mm	XF-983-FAR
Pt100	Class A	2.8mm	15mm	XF-985-FAR
Pt100	Class A	2.8mm	25mm	XF-982-FAR

Dual element:

Pt100 (x2)	Class A	1.5mm	15mm	XF-980-FAR
Pt100 (x2)	Class B	1.5mm	15mm	XF-1477-FAR
Pt100 (x2)	Class A	2.8mm	15mm	XF-1478-FAR
Pt100 (x2)	Class B	2.8mm	25mm	XF-1479-FAR
Pt100 (x2)	Class A	2.8mm	25mm	XF-1480-FAR

