

High Accuracy PRT

Wide Temperature Range

PRT offer a wide temperature range from -80°C to 400°C

Calibration

It is recommended to calibrate this PRT annually over the full temperature range in between annual calibrations.

PRT

Highly accurate reference sensors for laboratory use



High accuracy Platinum Resistance Thermometer (PRT) is an interpolating instrument converting temperature to resistance. It works together with readout device to measure temperature or change of temperature. It has wide applications for dry-wells or temperature baths.

Ordering Code

Model	Dia*	Length*	Extension cable length*
TPRT(XXX)	(X.X) mm	(XXX) mm	(XX) Mtr.
110	6.0	450	1.5
105	4.5		
103			
100			

Example : TPRT110-6.0-450-1.5

* Can be provided as per customer requirement

Specifications

Make	Tempsens			
Resistance at 0°C	Nominal 100 Ω			
Temperature Coefficient	0.00385 Ω/ Ω/ °C			
Sheath Material	SS-316			
Dimension	(6.0 mm X 450 mm)			
Extension leads	1.5 mtr. long teflon Insulated silver plated copper cable with flying leads			
Handle Dimension	15 mm (OD) X 100 mm (L)			
Calibration Standard	at 5 points at Tempsens NABL Accredited Lab			
Short Term Stability	0.01°C	0.01°C	0.02°C	0.02°C
Temperature Range	-38 to 250°C (1/10 Din)	-38 to 250°C (1/5 Din)	-80 to 300°C (1/3 Din)	-80 to 400°C (Class A)
Model	TPRT 110	TPRT 105	TPRT 103	TPRT 100
Accuracy	±0.04°C at -38°C ±0.03°C at 0°C ±0.08°C at 100°C ±0.13°C at 200°C ±0.155°C at 250°C	±0.10°C at -38°C ±0.06°C at 0°C ±0.16°C at 100°C ±0.26°C at 200°C ±0.31°C at 250°C	±0.23°C at -80°C ±0.10°C at 0°C ±0.27°C at 100°C ±0.43°C at 200°C ±0.60°C at 300°C	±0.31°C at -80°C ±0.15°C at 0°C ±0.35°C at 100°C ±0.65°C at 250°C ±0.95°C at 400°C