

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.

It is recommended to calibrate this PRT annually over the full temperature range in between annual calibrations; user can check the drift rate by comparing RTPW against the last Calibration results



Technical Specifications

Make	Tempsens			
Resistance at 0°C	Nominal 100 Ω			
Temp. 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
Temp. 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
Drift	± 0.03°C at 0°C after 100 hours at 250°C	± 0.05°C at 0°C after 100 hours at 250°C	± 0.07°C at 0°C after 100 hours at 250°C	± 0.10°C at 0°C after 100 hours at 250°C
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

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