

AM1610 Precision Industrial PRT

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FEATURES

Sensor Length: 30mm
Temperature range: -60°C to 160°C
Accuracy: <0.05°C
Durable and shock resistant
Extremely low stem conduction

OVERVIEW

With a 30mm long sensor, the AM1610 precision industrial PRT (IPRT) provides users an excellent temperature probe with extremely low stem conduction (heat loss along the sheath) in precision temperature measurement. It is a great tool for measuring and testing the vertical temperature uniformity of heat sources.

The AM1610 uses a specially aged and tested 30mm long sensing element to achieve the best performance in stability and repeatability. A unique assembly procedure provides the best balance among the hysteresis effect, mechanical shock and thermal shock performance.

MULTIPLE SIZE OPTIONS AVAILABLE

Model	Length	OD	30mm sensor
1610-12	12in	0.25in	✓
1610-9	9in	0.187in	✓


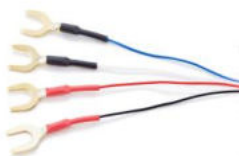


SPECIFICATIONS

	1610-12	1610-9
Temperature Range	-60°C to 160°C	
Nominal Resistance at 0°C	100 Ω	
Temperature Coefficient	0.00385 $\Omega/\Omega/^{\circ}\text{C}$	
Accuracy	<0.05°C over the full range	
Long Term Drift at 0.01°C*	<0.04°C at TPW after 100 hours at 160°C	
Short Term Stability	<0.01°C	
Thermal Shock	<0.01°C after 10 thermal cycles from minimum to maximum temperatures	
Hysteresis	$\leq 0.01^{\circ}\text{C}$	
Self-heating	50 mW/ $^{\circ}\text{C}$	
Response Time**	5 seconds	
Measurement Current	0.5 mA or 1 mA	
Sensor Length	30 mm	
Sensor Location	5 mm from tip	
Insulation Resistance	>1000 M Ω at room temperature	
Sheath Material	Stainless Steel	
Sheath Dimensions	0.25in (OD) x 12in (L)	0.187in (OD) x 9in (L)
External Leads	Teflon™ insulated copper wire, 4 leads, 2 meters	
Handle Dimension	15mm (OD) x 65mm (L)	10mm (OD) x 50mm (L)
Handle Temperature Range	-50°C to 160°C	

*Long-term drift rate is for reference only. It could be affected by such facts as handling, application, and maintenance, etc.

**for 63% response to step change in water moving at 3 feet per second

ORDERING OPTIONS

Model	Description			
9001	Wooden carrying case for 12" and 9" probe			
5007	NIST traceable calibration			
5033	ISO 17025 accredited calibration			
Termination Options	Bare Wire (default) 	Spade 	8010 Connector 	ADT LEMO Connector 

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