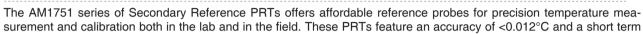


AccuMac AM1751 Secondary Reference PRT



- Affordable Reference Probe
- Temperature Range: -200°C to 670°C
- Accuracy: <0.012°C at 0.01°C
- Short-term Stability: <0.007°C
- Temperature Coefficient 0.003925 $\Omega/\Omega/^{\circ}$ C
- Fully Meets the ITS-90 Criteria for Reference Thermometers
- Inconel[™] Sheath to Withstand Harsh Environments
- ISO 17025 Accredited Calibration Included





stability of <0.007°C.

To reach the best performance in stability and repeatability, the sensing element has been specially designed to protect the platinum sensing wire from contamination at high temperatures. A unique supporting structure and filling material provide the best balance among the hysteresis effect, mechanical shock and thermal shock performance. This high-performance probe fully meets the ITS-90 criteria for reference thermometers. Each probe comes standard with an ISO 17025 accredited calibration.

SPECIFICATIONS

	AM1751-12	AM1751-BEND	
Temperature Range	-200°C to 670°C		
Nominal Resistance at 0.01°C	100 Ω		
Temperature Coefficient	0.003925 Ω/Ω/°C		
Calibrated Accuracy (k=2) ^{[1][2]}	±0.025°C at -40°C ±0.015°C at 0.01°C ±0.035°C at 420°C ±0.05°C at 661°C		
Long Term Drift at 0.01°C[3]	<0.01°C at TPW after 100 hours at 661°C		
Short Term Stability	<0.007°C		
Thermal Shock	<0.005°C after 10 thermal cycles from minimum to maximum temperatures		
Hysteresis	≤0.005°C		
Self-heating	50 mW/°C		
Response Time ^[4]	9 seconds		
Measurement Current	0.5 mA or 1 mA		
Sensor Length	1.26 in (32 mm)		
Sensor Location	0.12 in (3 mm) from tip		
Insulation Resistance	>1000 M Ω at room temperature		
Sheath Material	Inconel™		
Sheath Dimensions	0.25 in (6.35 mm) (OD) x 12 in (305 mm) (L)	0.25 in (6.35 mm) (OD) x 9.75 in (247.65 mm) vertical x 4.5 in (114.3 mm) horizontal	
External Leads	Teflon™ insulated copper wire, 4 leads, 6.5 feet (2 meters)		
Handle Dimension	0.59 in (15 mm) (OD) x 2.56 in (65 mm) (L)		
Handle Temperature Range	-50°C to 180°C		
Calibration	ISO 17025 accredited calibration		

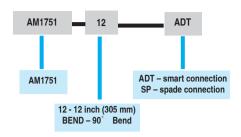
- [1] Includes calibration and 100 hour drift.
- [2] Probe calibration ranges may differ from probe temperature ranges (see Calibrated Accuracy for calibration ranges).
- [3] Long-term drift rate is for reference only. It could be affected by such facts as handling, application, and maintenance, etc.
- [4] For 63% response to step change in water moving at 1 meter per second.



ORDERING INFORMATION



Model Number



Optional Accessories			
Model	Quantity	Description	Picture
9070	1 pc	Smart connector for reference PRT for use with Additel temperature products	
9071	1 pc	Connector adapter from Additel smart connector to 4-wire with gold plated spades	No state of the st
9072	1 pc	Connector adapter from Additel smart connector to 4-wire with clamps	1