

FEATURES

Reliable SPRT for daily use Rtpw Drift: <4mK after 100hrs at 661°C Temperature range: -200°C to 670°C Short term stability: <0.002°C at 0.01°C Inconel[™] sheath to withstand harsh environments Fully meets the ITS-90 criteria for reference thermometers

MULTIPLE SIZE OPTIONS AVAILABLE

Model	Length	OD	Nominal Resistance at 0°C	Inconel™
1762-20	20in	0.25in	25Ω	\checkmark
1762-12	12in	0.25in	25Ω	\checkmark
1760-20	20in	0.25in	100Ω	\checkmark
1760-12	12in	0.25in	100Ω	\checkmark
1760-BND	9.75in vertical	0.25in	100Ω	\checkmark

OVERVIEW

The AM1760 series Secondary SPRTs provides our customers with reliable secondary standards that can be used daily in their labs. These SPRTs feature an accuracy of <0.006°C at 0.01°C, a short term stability of <0.002°C and a very low drift rate of less than 0.004°C after 100 hours at 661°C. These SPRTs are both available at either 12 inches or 20 inches in length. The AM1760 is also available in a bended version.

The sensing element is designed to protect the platinum sensing wire from contamination at high temperatures, giving these SPRTs a high level of stability and repeatability in performance. A uniquely designed support structure and filling material provides an excellent balance between the hysteresis effect, mechanical shock and thermal shock performance. This high performance probe fully meets the ITS-90 criteria for reference thermometers.

Address: 90 N William Dillard Drive C-107, Gilbert, AZ 85233 Phone: 480-634-0603 Web: www.accumac.com

For Technical Help: lab@accumac.com For Sales: sales@accumac.com

AM1762/1760 Secondary SPRTs



SPECIFICATIONS

	1762	1760			
Temperature Range	-200°C to 670°C				
Nominal Resistance at 0°C	25 Ω	100 Ω			
Temperature Coefficient	0.003925 Ω/Ω/°C				
Accuracy	<0.006°C at 0.01°C				
Long Term Drift at 0.01°C*	<0.004°C at TPW after 100 hours at 661°C				
Short Term Stability	<0.002°C				
Thermal Shock	<0.002°C after 10 thermal cycles from minimum to maximum temperatures				
Hysteresis	≤0.005°C				
Self-heating	0.0015°C at 1 mA current	0.0015°C at 0.5 mA current			
Response Time**	9 seconds				
Measurement Current	0.5 mA or 1 mA				
Sensor Length	42 mm				
Sensor Location	5 mm from tip				
Insulation Resistance	>1000 MΩ at room temperature				
Sheath Material	Inconel™				
Sheath Dimensions	1762-20: 0.25in (OD) x 20in (L) 1762-12: 0.25in (OD) x 12in (L)	1760-20: 0.25in (OD) x 20in (L) 1760-12: 0.25in (OD) x 12in (L) 1760-BND: 0.25in (OD) x 9.75in vertical x 4.5in horizontal			
External Leads	Teflon [™] insulated copper wire, 4 leads, 2 meters				
Handle Dimension	15mm (OD) x 65mm (L)				
Handle Temperature Range	-50°C to 180°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" probe (included with AM1762-12/AM1760-12)					
9002	Wooden carrying case for 20" probe (included with AM1762-20/AM1760-20)					
5033	ISO 17025 accredited calibration					
Termination Options	Bare Wire (default)	Spade	8010 Connector	ADT LEMO Connector		

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