

AccuMac AM1760 & AM1762 Secondary SPRTs



- Reliable SPRT for Daily Use
- Rtpw Drift: < 4 mK after 100 hrs at 661 °C
- Short-term Stability : < 0.002 °C at 0.01 °C
- Temperature Range: 200 °C to 670 °C
- Inconel[™] Sheath to Withstand Harsh Environments
- Fully Meets the ITS-90 Criteria for Reference Thermometers
- ISO 17025 Accredited Calibration Included

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. Two different lengths of these SPRTs are available at either305 mm (12 inches) or 508 mm (20 inches).

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 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. Each probe comes standard with an ISO 17025 accredited calibration...

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Calibration Experts

AM1760	AM 1762	AM1751-Bend	
-200 °C to 670 °C			
100 Ω	25 Ω	100 Ω / 25 Ω	
0.003925 Ω / Ω / °C			
	± 0.010 °C at -196 °C ± 0.006 °C at 0.01 °C ± 0.015 °C at 420 °C ± 0.025 °C at 661 °C		
< 0.04 °C at TPW after 100 hours at 661 °C			
<0.002 °C			
< 0.002 °C after 10 thermal cycles from minimum to maximum temperatures			
0.0015°C at 0.5 mA current	0.0015°C at 1 mA	0.0015°C at 0.5 mA 0.0015°C at 1 mA	
9 seconds			
0.5 mA	1 mA	0.5 mA / 1 mA	
42 mm (1.65 in)			
5 mm (0.2 in)			
>1000 MΩ at room temperature			
Inconel TM			
OD x 508 mm (20 in) L	OD x 508 mm (20 in) L	x 247.65 mm (9.75 in) vertical	
Teflon™ insulated copper wire, 4 leads, 2 m (3.5 feet)			
15 mm (0.59 in) OD x 65 mm (2.56 in) L			
-50 °C to 180 °C			
ISO 17025 accredited calibration			
	100 Ω < 0.04 °C < 0.002 °C after 10 therm 0.0015°C at 0.5 mA current 0.5 mA 0.5 mA >10 1760-20: 6.35 mm (0.25 in) OD x 508 mm (20 in) L 1760-12: 6.35 mm (0.25 in) OD x 305 mm (12 in) L Teflon™ insula 15 mm	AM1760 AM 1762 -200 °C to 670 °C 100 Ω 25 Ω 0.003925 Ω / Ω / °C ± 0.010 °C at -196 °C ± 0.006 °C at 0.01 °C ± 0.015 °C at 420 °C ± 0.025 °C at 661 °C < 0.002 °C < 0.002 °C after 10 thermal cycles from minimum to mathem of the current 0.0015 °C at 0.5 mA current 0.0015 °C at 1 mA 0.0015 °C at 1 mA 0.0015 °C at 0.5 mA current 9 seconds 0.5 mA 1 mA 42 mm (1.65 in) 5 mm (0.2 in) >100 MΩ at room temperature Inconel ™ 1760-20: 6.35 mm (0.25 in) OD 0D x 508 mm (20 in) L 1760-12: 6.35 mm (0.25 in) 0D x 305 mm (12 in) L 1760-12: 6.35 mm (0.25 in) 0D x 305 mm (12 in) L 1760-12: 6.35 mm (0.25 in) 0D x 305 mm (12 in) L 1760-12: 6.35 mm (0.25 in) 0D x 305 mm (12 in) L 15 mm (0.59 in) OD x 65 mm (2.56 in -50 °C to 180 °C	

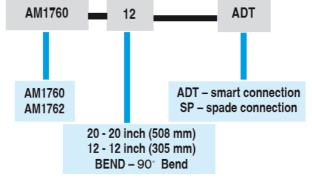
[1] Includes calibration and 100 hour drift.

[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:



Note: Carrying case included (excludes -Bend probes)

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	- O\$
9072	1 pc	Connector adapter from Additel smart connector to 4-wire with clamps	

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