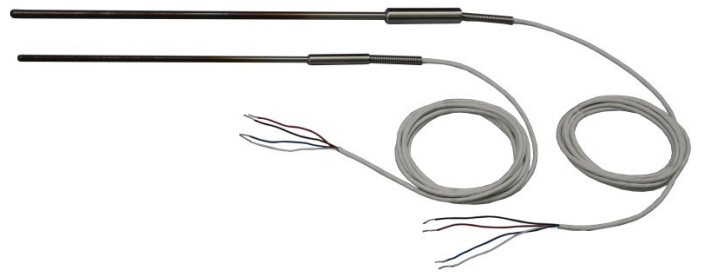


## HIGHLIGHTS

- ✓ **Sensor Length: 30 mm**
- ✓ **Accuracy:  $\pm 0.05^{\circ}\text{C}$**
- ✓ **Durable and shock resistance**
- ✓ **Customized dimensions available**



## OVERVIEW

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

AM1610 uses a special aged and tested 30-mm 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.

## FEATURES

- Temperature range:  $-60^{\circ}\text{C}$  to  $160^{\circ}\text{C}$
- Sensor Length: 30 mm
- Accuracy:  $\pm 0.05^{\circ}\text{C}$
- Long term drift:  $\pm 0.04^{\circ}\text{C}$
- Short term stability:  $0.01^{\circ}\text{C}$
- Durable and shock resistance
- Temperature Coefficient 0.00385
- SST sheath
- Quick response time
- Customized dimensions available

## SPECIFICATIONS

<b>Temperature Range</b>	-60 °C to 160 °C
<b>Resistance at 0 °C</b>	Nominal 100 Ω
<b>Temperature Coefficient</b>	0.00385 Ω/ Ω/°C
<b>Accuracy</b>	±0.05 °C over the full range
<b>Drift</b>	±0.04 °C at 0 °C after 100 hours at 160 °C
<b>Short Term Stability</b>	±0.01 °C
<b>Thermal Shock</b>	±0.01 °C after 10 times thermal cycles from minimum to maximum temperatures
<b>Hysteresis</b>	<=0.01 °C
<b>Self-heating</b>	50 mW/°C
<b>Response Time</b>	5 seconds for 63% response to step change in water moving at 3 feet per second
<b>Measurement Current</b>	0.5 mA or 1 mA
<b>Sensor Length</b>	30 mm
<b>Sensor Location</b>	5 mm from tip
<b>Insulation Resistance</b>	>1000 MΩ at room temperature
<b>Sheath Material</b>	316 Stainless Steel
<b>Dimension</b>	1610-12: 0.25 inch X 12 inch (6.35 mm X 305 mm) 1610-9: 0.187 inch X 9 inch (4.75 mm X 229 mm)
<b>External Leads</b>	Teflon <sup>tm</sup> – insulated copper wire, 4 leads, 2.5 meters
<b>Handle Dimension</b>	1610-12: 15 mm (OD) X 65 mm (L) 1610-9: 10 mm (OD) X 50 mm (L)
<b>Handle Temperature Range*</b>	-50 °C to 160 °C
<b>Optional Calibration</b>	NIST traceable calibration and data available per request: 1610-12: Ordering # 5017

\*Handle temperature outside this range will cause damage to the probe.

## OPTIONAL ACCESSORIES

Model	Description
9001	Wooden Carrying Case