HIGHLIGHTS

- ✓ Affordable reference probe
- ✓ Accuracy ±0.015 °C at 0.01 °C
- ✓ Temperature range: -60 °C to 160 °C
- ✓ Customized dimensions available



OVERVIEW

AM1710 series Secondary Reference PRT provides our customers an affordable reference probe for precision temperature measurement and calibration in labs and fields. The PRT features accuracy of ±0.015 °C and short term stability of ±0.007 °C. Two different lengths of PRTs are available at 9-inch and 12-inch.

To reach the best performance in stability and repeatability, the sensing element is specially designed to protect the platinum sensing wire from contamination at high temperature. A unique support structure and filling material provide the best balance among the hysteresis effect, mechanical shock and thermal shock performance. This high performance probe meets ITS-90 criteria of reference thermometer fully.

FEATURES

Temperature range: -60 °C to 160 °C

Accuracy: ±0.015 °C

■ Long term drift: ±0.01 °C

Short term stability: 0.007 °C

Durable and shock resistance

■ Temperature Coefficient 0.003925 Ω/ Ω/°C

■ W(Ga)>=1.11807

Stainless steel sheath

Customized dimensions available

Address: 90 N William Dillard Drive C-107, Gilbert, AZ 85233

Phone: 480-634-0603

For Technical Help: <u>info@accumac.com</u> For Sales: <u>sales@accumac.com</u>

SPECIFICATIONS

-60 °C to 160 °C
Nominal 100 Ω
0.003925 Ω/ Ω/°C
±0.015 °C at 0.01 °C
±0.01 °C at TPW after 100 hours at 160 °C
±0.007 °C
±0.005 °C after 10 times thermal cycles from minimum to
maximum temperatures
<=0.005 °C
50 mW/°C
9 seconds for 63% response to step change in water moving
at 3 feet per second
0.5 mA or 1 mA
32 mm
5 mm from tip
>1000 $M\Omega$ at room temperature
Stainless Steel
0.25 inch X 12 inch (6.35 mm X 305 mm)
Teflon tm – insulated copper wire, 4 leads, 2.5 meters
1710-12: 15 mm (OD) x 65 mm (L)
1710-9: 10 mm (OD) X 50 mm (L)
-50 °C to 160 °C
NIST traceable calibration and data available per request:
Ordering # 5017

^{*}Handle temperature outside this range will cause damage to the probe.

OPTIONAL ACCESSORIES

Model	Description
9001	Wooden Carrying Case

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