

HIGH ACCURACY PROBE ONLY

Stainless Steel Probe, Thermistor

The ACI High Accuracy Thermistor Probe Only Series features a ¼" diameter stainless steel probe with two, 14 or 24 inch 22 AWG Etched Teflon colored lead wires to differentiate the sensor types. The sensors in this series are manufactured using ACI's proven double encapsulation process to eliminate the effects of moisture upon the sensors and to increase the thermal response time using our high quality, thermally conductive epoxy. The probe is designed to be used in duct and immersion applications when used with the proper length thermowell. This series can be ordered with different wire and cable types and lengths.

Applications: Roof Top Units, Air Handlers, Supply/Discharge Air/Return/Mixed/Exhaust Air Duct Temperature Sensing, Immersion Temperature Sensors, Replacement Temperature Sensors

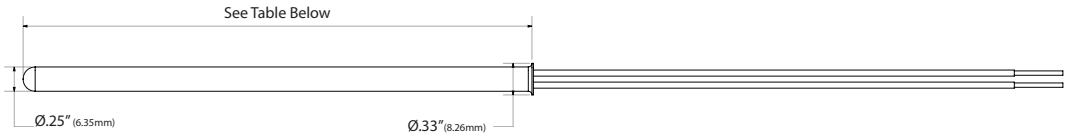
The ACI High Accuracy Thermistor Probe Only Series is covered by ACI's Five (5) Year Limited Warranty. The warranty can be found in the front of ACI's Sensors & Transmitters catalog, as well as on ACI's website, www.workaci.com.

PRODUCT SPECIFICATIONS

Sensor Type | Sensor Curve:	Thermistor | Non-Linear, NTC (Negative Temperature Coefficient)
Number Sensing Points:	One
Number Wires:	Two (Non-Polarity Sensitive)
Sensor Output @ 25°C (77°F)	**A/0.1AN Series** (Type III): 10KΩ nominal (White/Black)
(Lead Wire Colors):	**A/0.1CP Series** (Type II): 10KΩ nominal (Green/Gray)
Accuracy from 0-70°C (32-158°F) [1]:	+/- 0.1°C (+/- 0.18°F)
Power Dissipation Constant:	**A/0.1AN Series:** 2 mW/°C nominal
	A/0.1CP Series: 1 mW/°C nominal
Stability [2]:	**A/0.1AN Series** (5 Years): +/- 0.127°C (0.228°F) @ 100°C (212°F)
	A/0.1CP Series (5 Years): +/- 0.12°C (0.216°F) @ 25°C (77°F)
	(10 Years): +/- 0.60°C (1.08°F) @ 25°C (77°F)
Response Time (63% Step Change):	10 Seconds nominal
Operating Temperature Range [2]:	0 to 70°C (32 to 158°F)
Storage Temperature Range [1]:	0 to 70°C (32 to 158°F)
Operating Humidity Range:	10 to 95% RH, non-condensing
NIST Certification:	3 Point NIST Certificate available
Probe Material:	304 Stainless Steel
Lead Length | Conductor Size:	4", 6" and 8" Probes: 14" (35.6 cm); 12" and 18" Probes: 24" (61cm) | 22 AWG (0.65mm)
Lead Wire Insulation | Wire Rating:	Etched Teflon (PTFE) Colored Leads | MIL-W-16878/4 (Type E)
Conductor Material:	Silver Plated Copper
Product Dimensions | Probe Diameter:	See table on back of product data sheet | 0.250" (6.35mm)
Product Weight:	4" = 0.028 lbs. (12.7g); 6" = 0.036 lbs. (16.3g); 8" = 0.044 lbs. (20g)
	12" = 0.066 lbs. (29.9g); 18" = 0.09 lbs. (40.8g)
Agency Approvals:	CE, RoHS2, WEEE

Note[1]: For best accuracy and long term stability the sensor should be used in applications where the operating temperatures remain within the specified operating temperature range of 0 to 70°C (32 to 158°F) | **Note[2]:** The sensor will operate over an extended operating temperature range of -40 to 150°C (-40 to 302°F) without damaging the sensor but the accuracy and long term stability will not meet the specifications above

DIMENSIONAL DRAWING



Probe Length	Ref A (Insertion Length)
4"	4.00" ± 0.13"
6"	6.00 ± 0.13"
8"	8.00" ± 0.13"
12"	12.00" ± 0.25"
18"	18.00" ± 0.25"

Standard View

CUSTOM ORDERING

Model # Example: A/ (A.) | 0.1AN (B.) | PO (C.) | 4" (D.) | (E.) | NIST (F.)

		MODEL #
A. Sensor Series *No Selection Required*	**A/** →	**A/**
B. Model Series *Select One (1)*	**0.1AN** = 10K (Type III) | **0.1CP** = 10K (Type II)	
C. Configuration *No Selection Required*	**PO** = Probe Only →	**PO**
D. Probe Length *Select One (1)*	**4"** = 4" Probe | **6"** = 6" Probe | **8"** = 8" Probe | **12"** = 12" Probe | **18"** = 18" Probe	
E. Lead Length *No Selection Required*	**----** = Standard 14" or 24" Lead Length →	
F. NIST *Select One (1)*	**----** = No NIST Certificate | **NIST** = NIST Certificate (3 Points)	

ACCESSORIES ORDERING

Model # Example: NSG HEAT TRANSFER PASTE 2 OZ -OR- 102595

Model #	Item #	Description
NSG HEAT TRANSFER PASTE 2 OZ	102595	Thermal Grease, 2 oz. Tube, Silicone Free, -40 to 320ºF (-40 to 160ºC)
NSG HEAT TRANSFER PASTE 16 OZ	140574	Thermal Grease, 16 oz. Jar, Silicone Free, -40 to 390ºF (-40 to 198ºC)