



## PROBE ONLY

## Stainless Steel Prode, Thermistor

The ACI Thermistor Probe Only Series features a 1/4" diameter stainless steel probe with two, 14" or 24 inch 22 AWG Etched Teflon colored lead wires to differentiate the different NTC 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. Optional lead lengths, cable types and NIST Certificates are availble as referenced in the ordering grid on the Product Data Sheet. Please contact ACI for more information regarding this sensor or to discuss your application in further detail. Other options that may be availble upon request.

 $\textbf{Applications:} \ Roof Top \ Units, Air Handlers, Supply/Discharge \ Air/Return/Mixed/Exhaust \ Air \ Duct \ Temperature \ Sensing, Immersion \ Sensing, Immersion \ Temperature \ Sensing, Immersion \ Sensing, Immersi$ Sensors, Replacement Temperature Sensors.

The ACI 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, workaci.com.

Sensor Type:		Thermistor				
Sensor Curve:		Non-Linear NTC (Negative Temperature Coefficient)				
Number Sensing Points:		One				
Number Wires:		Two (Non-Polarity Sensitive)				
Sensor Output @ 25°C (77°F)   (Standard Lead Wire Colors):		A/1.8K: 1.8KΩ nominal   (Red/Yellow) A/3K: 3KΩ nominal   (White/Brown) A/AN (Type III): 10KΩ nominal   (White/White) A/AN-BC: 5.238KΩ nominal   (White/Yellow) A/CP (Type II): 10KΩ nominal   (White/Green) A/CSI: 10KΩ nominal   (Green/Yellow)	A/10KS: $10$ K $\Omega$ nominal   (White/Blue) A/10K-E1: $10$ K $\Omega$ nominal   (Gray/Orange) A/20K: $20$ K $\Omega$ nominal   (Brown/Blue) A/50K: $50$ K $\Omega$ nominal   (Brown/Yellow) A/100KS: $100$ K $\Omega$ nominal   (Black/Yellow)			
Accuracy 0-70°C (32-158°F):		+/-0.2°C (+/-0.36°F) except <b>A/10K-E1 Series:</b> +/- 0.3°C (+/-0.54°F)				
		<b>A/1.8K Series:</b> +/- 0.5°C @ 25°C (77°F) and (+/-1.0°C) (+/-1.8°F)				
Stability:		Sensor Dependent; Contact ACI for more information on the sensor in question.				
Response Time (63% Step Change):		: 10 Seconds nominal				
Power Dissipation Constant:		3 mW/°C except <b>A/1.8K Series:</b> 1 mW/°C   <b>A/10K-E1 Series:</b> 2 mW/°C				
Operating Temperature Range:		-40 to 150°C (-40 to 302°F)				
Storage Temperature Range:		-40 to 85°C (-40 to 185°F)				
Operating Humidity Range:		10 to 95% RH, non-condensing				
Probe Material:		304 Stainless Steel				
	Lead Wire Insulation   Wire Rating:	Etched Teflon (PTFE) Colored Leads   MIL-W-16878/4 (Type E)				
Standard	Temperature Rating:	-55°C (-67°F) to 200°C (392°F)				
Wire	Conductor Material:	Silver Plated Copper				
	Rated Application:	Suitable for Indoor and Outdoor (wet) location. Oil, Moisture, Acids, Oils and Moisture Resistant				
	Lead Length   Conductor Size:	<b>4", 6" and 8" Probes:</b> 14" (35.6 cm)   <b>12" and 18" Probes:</b> 24" (61cm)   22 AWG (0.65mm)				
Plenum Wire	Lead Wire Insulation   Wire Rating:	CL2P: FEP (Fluorinated Ethylene Propylene)   TYPE CL2P - TYPE CMP 22 AWG (UL), C(UL) FEP/FEP E130356 ROH:				
	Temperature Rating:	<b>CL2P:</b> -80°C (-112°F) to 150°C (302°F)				
	Conductor Material:	CL2P: Tinned Copper				
	Rated Application:	CL2P: Suitable for Indoor and Outdoor (wet) locations. Oil, Gas, Sunglight, Abrasion Acid Resistant				
Product Dimensions   Probe Diameter:		See table on back of product data sheet   0.250" (6.35mm)				
Product Weight:		<b>4"</b> = 0.028 lbs. (12.7g)   <b>6"</b> = 0.036 lbs. (16.3g)   <b>8"</b> = 0.044 lbs. (20g)   <b>12"</b> = 0.066 lbs. (29.9g)   <b>18"</b> = 0.09 lbs. (40.8g)				
Agency Approvals:		CE, RoHS2, WEEE				



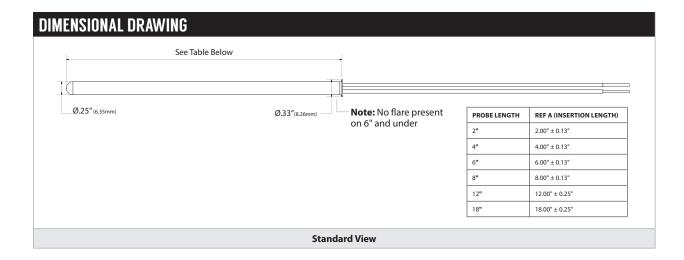






## TEMPERATURE | THERMISTORS | PROBE ONLY





CUSTOM ORDERING	Model # Example: A/ 1.8K PO 4" 6'CL2P NIST A. B. C. D. E. F.	MODEL #
<b>A. Sensor Series</b> <sup>1</sup> No Selection Required	A/	A/
B. Model Series Select One (1)	1.8K   3K   AN   AN-BC   CP   CSI   10KS   10K-E1   20K   50K   100KS	
C. Configuration Select One (1)	PO = Probe Only	PO
D. Probe Length Select One (1)	2" = 2" Probe   4" = 4" Probe   6" = 6" Probe   8" = 8" Probe   12" = 12" Probe   18" = 18" Probe	
E. Lead Wire Options Select One (1)	= Standard 14 or 24" Etched PTFE Colored Leads 6'CL2P = 6 ft (1.83m), 2 Conductor Plenum Rated Cable 10'CL2P = 10 ft (3.05m), 2 Conductor Plenum Rated Cable 20'CL2P = 20 ft (6.10m), 2 Conductor Plenum Rated Cable	
F. NIST Select One (1)	= No NIST Certificate   <b>NIST</b> = NIST Certificate (3 Points)	

ACCESSORIES ORDERING		Model # Example: NSG HEATTRANSFER PASTE 20Z -OR- 102595
Model #	Item #	Description
NSG HEAT TRANSFER PASTE 20Z	102595	Thermal Grease, 2 oz. Tube, Silicone Free, -40 to 320°F (-40 to 160°C)
NSG HEAT TRANSFER PASTE 160Z	140574	Thermal Grease, 16 oz. Jar, Silicone Free, -40 to 390°F (-40 to 198°C)





