



PROBE ONLY

Stainless Steel Probe, 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.

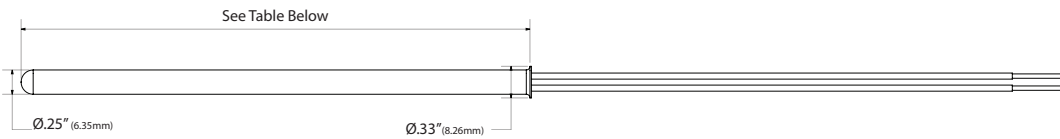
Applications: Roof Top Units, Air Handlers, Supply/Discharge Air/Return/Mixed/Exhaust Air Duct Temperature Sensing, Immersion Temperature Sensors, Replacement Temperature Sensors

PRODUCT SPECIFICATIONS

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) (Lead Wire Colors):	A/1.8K: 1.8K Ω nominal (Red/Yellow)	A/CSI: 10K Ω nominal (Green/Yellow)
	A/3K: 3K Ω nominal (White/Brown)	A/10KS: 10K Ω nominal (White/Blue)
	A/AN (Type III): 10K Ω nominal (White/White)	A/10K-E1: 10K Ω nominal (Gray/Orange)
	A/AN-BC: 5.238K Ω nominal (White/Yellow)	A/20K: 20K Ω nominal (Brown/Blue)
	A/CP (Type II): 10K Ω nominal (White/Green)	A/100KS: 100K Ω nominal (Black/Yellow)
Accuracy 0-70°C (32-158°F):	+/-0.2°C (+/-0.36°F) except A/10K-E1 Series: +/- 0.3°C (+/-0.54°F)	
	A/1.8K Series: +/- 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 A/1.8K Series: 1 mW/°C A/10K-E1 Series: 2 mW/°C	
NIST Certification:	1 Point, 3 Point, or 5 Point NIST Certificates available	
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 Length Conductor Size:	4", 6" and 8" Probes: 14" (35.6 cm) 12" and 18" Probes: 24" (61 cm) 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	



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/ 1.8K PO 4" NIST

A. Sensor Series No Selection Required	A/
B. Model Series Select One (1)	1.8K 3K AN AN-BC CP CSI 10KS 10K-E1 20K 100KS
C. Configuration No Selection Required	PO = Probe Only
D. Probe Length Select One (1)	4" = 4" Probe 6" = 6" Probe 8" = 8" Probe 12" = 12" Probe 18" = 18" Probe
E. NIST Select One (1)	---- = No NIST Certificate NIST = NIST Certificate (Must Specify 1, 3 or 5 Points)

MODEL #

A/

PO

ACCESSORIES ORDERING

Model # Example: FITTING, 316 HIGH TEMP DUCT -OR- 100391

Model #	Item #	Description	Bore	Thread Size
FITTING, BRASS, HIGH TEMP DUCT	137313	Fitting, Brass, Compression, Duct	0.255"	1/8"-27 MNPT
FITTING, 316 HIGH TEMP DUCT	100391	Fitting, 316SS, Compression, Duct	0.255"	1/8"-27 MNPT
FITTING, 1/2" NPT, BRASS 1/4"	130342	Fitting, Brass, Compression, Immersion	0.255"	1/2"-14 MNPT
FITTING, 316 HT IMMERSION	100392	Fitting, 316SS, Compression, Immersion	0.255"	1/2"-14 MNPT
NSG HEAT TRANSFER PASTE 2OZ	102595	Thermal Grease, 2 oz. Tube, Silicone Free, -40 to 320°F (-40 to 160°C)	N/A**	N/A**
NSG HEAT TRANSFER PASTE 16OZ	140574	Thermal Grease, 16 oz. Jar, Silicone Free, -40 to 390°F (-40 to 198°C)	N/A**	N/A**

Note**: N/A denotes that it isn't applicable for these parts

