



RAW POTTED

Remote Sensing Plastic Cap, Thermistor



The ACI Thermistor Raw Series features a one inch long, 1/4" diameter plastic cup with two, 24 inch 22 AWG Etched Teflon colored lead wires to differentiate the different sensor types. The sensors in this series are manufactured using ACI's proven manufacturing process to eliminate the effects of moisture on the sensors and increased thermal response times using our high quality, thermally conductive epoxy. The raw sensor configuration is designed to monitor air temperatures and should not be fully submerged in liquid. This series can be ordered with optional NIST Certificate and a plenum rated cable option as shown in the ordering grid on the back of the product data sheet. All additional wire specifications can be found on our products download page on-line. Please contact ACI for more information regarding this product or to

discuss your application in further detail. Other options may be available upon request.

Applications: Roof Top Units, Air Handlers, Discharge Air/Supply/Return/Mixed Air Duct Temperature, Remote Temperature Sensing

The ACI Thermistor Raw 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.

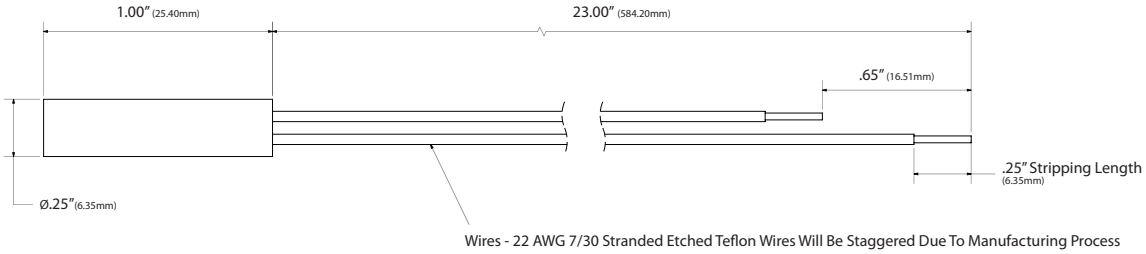
PRODUCT SPECIFICATIONS

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/1.8K: 1.8KΩ nominal (Red/Yellow)	A/CSI: 10KΩ nominal (Green/Yellow)
(Lead Wire Colors):	A/3K: 3KΩ nominal (White/Brown)	A/10KS: 10KΩ nominal (White/Blue)
	A/AN (Type III): 10KΩ nominal (White/White)	A/10K-E1: 10KΩ nominal (Gray/Orange)
	A/AN-BC: 5.238KΩ nominal (White/Yellow)	A/20K: 20KΩ nominal (Brown/Blue)
	A/CP (Type II): 10KΩ nominal (White/Green)	A/100KS: 100KΩ nominal (Black/Yellow)
Sensor 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)	
Power Dissipation Constant:	3 mW/°C except A/1.8K Series: 1 mW/°C A/10K-E1 Series: 2 mW/°C	
Stability:	Sensor Dependent; Contact ACI for more information on specific sensor	
Response Time (63% Step Change):	10 Seconds nominal	
Cup Plastic Material Flammability Rating:	Glass Filled, Flame Retardant, Dialyl Ortho Phthalate UL94-V0	
Cup MIL-M-14, ASTM D-5948-96:	Type SDG-F	
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	
Lead Length Conductor Size:	24" (0.61m) 22 AWG (0.65mm)	
Lead Wire Insulation Wire Rating:	Etched Teflon (PTFE) Colored Leads Mil Spec 16878/4 Type E	
Conductor Material:	Silver Plated Copper	
Product Dimensions (Length x Diameter):	1.00" (25.4mm) x 0.250" (6.35mm)	
Product Weight:	0.04 lbs. (18.15g)	
Agency Approvals:	CE, RoHS2, WEEE	





DIMENSIONAL DRAWING



Standard View

STANDARD ORDERING

Model # Example: **A/3K-W -OR- 121091**

Model #	Item #	Description
A/1.8K-W	125493	1.8K Raw, 24" Leads, 1" Cup
A/3K-W	121091	3K Raw, 24" Leads, 1" Cup
A/AN-W	121744	AN (Type III) Raw, 24" Leads, 1" Cup
A/AN-BC-W	121745	AN-BC Raw, 24" Leads, 1" Cup, 11K Shunt
A/CP-W	122274	CP (Type II) Raw, 24" Leads, 1" Cup
A/CSI-W	122420	CSI Raw, 24" Leads, 1" Cup
A/10KS-W	120234	10KS Raw, 24" Leads, 1" Cup
A/10K-E1-W	142390	10K-E1 Raw, 24" Leads, 1" Cup
A/20K-W	120706	20K Raw, 24" Leads, 1" Cup
A/100KS-W	120140	100KS Raw, 24" Leads, 1" Cup

OPTIONAL SENSOR ORDERING

Model # Example: **A/ 3K W 20' CL2P NIST**
A. B. C. D. E. F.

		MODEL #
A. Sensor Series <i>No Selection Required</i>	A/ _____ →	A/
B. Model Series <i>Select One (1)</i>	1.8K 3K AN AN-BC CP CSI 10KS 10K-E1 20K 100KS	
C. Configuration <i>No Selection Required</i>	W = 1" Plastic Cup _____ →	W
D. Lead Length <i>Select One (1)</i>	6' = 6 Feet (1.83m) 10' = 10 Feet (3.05m) 20' = 20 Feet (6.10m)*	
E. Lead Wire Type <i>No Selection Required</i>	CL2P = 2 Conductor FEP/FEP Plenum Rated Cable _____ →	CL2P
F. NIST <i>Select One (1)</i>	---- = No NIST Certificate NIST = NIST Certificate (Must Specify 1, 3 or 5 Points)	

Note*: The 20' Length is not CE Compliant but it is RoHS Compliant

ACCESSORIES ORDERING

Model # Example: **¼" Mount Clip -OR- 108169**

Model #	Item #	Description	Galvanized Metal	Plastic w/ Adhesive
¼" Mount Clip	108169	Hardware, ¼" Mounting Clip	●	
¼" U-Mount CL	100090	Hardware, ¼" U-Mounting Clip Adhesive		●

