



# BULLET PROBE

## 1" Bullet Probe, Thermistor

The ACI Thermistor Bullet Probe Series features a one inch stainless steel probe with two, 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 times using our high quality, thermally conductive epoxy. The bullet style sensor is designed to monitor air temperatures and should not be fully submerged in water. This series can be ordered with different wire options and NIST certificates.

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

The ACI Thermistor Bullet Probe 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](http://www.workaci.com).

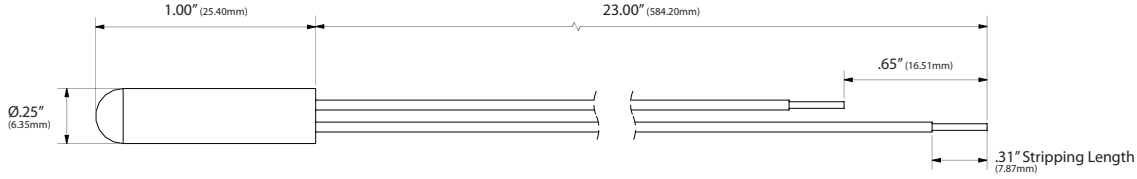
### PRODUCT SPECIFICATIONS

<b>Sensor Type:</b>	Thermistor	
<b>Sensor Curve:</b>	Non-Linear, NTC (Negative Temperature Coefficient)	
<b>Number Sensing Points:</b>	One	
<b>Number Wires:</b>	Two (Non-Polarity Sensitive)	
<b>Sensor Output @ 25°C (77°F)   (Lead Wire Colors):</b>	<b>A/1.8K:</b> 1.8KΩ nominal   (Red/Yellow)	<b>A/CP (Type II):</b> 10KΩ nominal   (White/Green)
	<b>A/2252:</b> 2.252KΩ nominal   (White/Red)	<b>A/CSI:</b> 10KΩ nominal   (Green/Yellow)
	<b>A/3K:</b> 3KΩ nominal   (White/Brown)	<b>A/10KS:</b> 10KΩ nominal   (White/Blue)
	<b>A/5K:</b> 5KΩ nominal   (Red/Gray)	<b>A/10K-E1:</b> 10KΩ nominal   (Orange/Gray)
	<b>A/AN (Type III):</b> 10KΩ nominal   (White/White)	<b>A/20K:</b> 20KΩ nominal   (Brown/Blue)
	<b>A/AN-BC:</b> 5.238KΩ nominal   (White/Yellow)	<b>A/100KS:</b> 100KΩ nominal   (Black/Yellow)
<b>Accuracy 0-70°C (32-158°F):</b>	+/-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)	
<b>Stability:</b>	Sensor Dependent; Contact ACI for more information on the sensor in question.	
<b>Response Time (63% Step Change):</b>	10 Seconds nominal	
<b>Power Dissipation Constant:</b>	3 mW/°C except <b>A/1.8K Series:</b> 1 mW/°C   <b>A/10K-E1 Series:</b> 2 mW/°C	
<b>Probe Material:</b>	304 Stainless Steel	
<b>Operating Temperature Range:</b>	-40 to 150°C (-40 to 302°F)	
<b>Storage Temperature Range:</b>	-40 to 85°C (-40 to 185°F)	
<b>Operating Humidity Range:</b>	10 to 95% RH, non-condensing	
<b>Lead Length   Conductor Size:</b>	24" (61cm)   22 AWG (0.65mm)	
<b>Lead Wire Insulation Wire Rating:</b>	Etched Teflon Colored Leads   MIL-W-16878/4 (Type E)	
<b>Conductor Material:</b>	Silver Plated Copper	
<b>Product Dimensions (Length x Diameter):</b>	1.00" (25.4mm) x 0.250" (6.35mm)	
<b>Product Weight:</b>	0.02 lbs. (9.07g)	
<b>Agency Approvals:</b>	CE, RoHS2, WEEE	





**DIMENSIONAL DRAWING**



Standard View

**STANDARD ORDERING**

Model # Example: **A/AN-BP -OR- 121366**

Model #	Item #	Description
<b>A/1.8K-BP</b>	124579	1.8K Bullet Probe, 24" (61.0 cm) Leads, 1" Probe
<b>A/2252-BP</b>	120713	2252 Bullet Probe, 24" (61.0 cm) Leads, 1" Probe
<b>A/3K-BP</b>	121001	3K Bullet Probe, 24" (61.0 cm) Leads, 1" Probe
<b>A/5K-BP</b>	121239	5K Bullet Probe, 24" (61.0 cm) Leads, 1" Probe
<b>A/AN-BP</b>	121366	AN (Type III) Bullet Probe, 24" (61.0 cm) Leads, 1" Probe
<b>A/AN-BC-BP</b>	121349	AN-BC Bullet Probe, 24" (61.0 cm) Leads, 1" Probe, 11K Shunt
<b>A/CP-BP</b>	121942	CP (Type II) Bullet Probe, 24" (61.0 cm) Leads, 1" Probe
<b>A/CSI-BP</b>	122308	CSI Bullet Probe, 24" (61.0 cm) Leads, 1" Probe
<b>A/10KS-BP</b>	120198	10KS Bullet Probe, 24" (61.0 cm) Leads, 1" Probe
<b>A/10K-E1-BP</b>	126744	10K-E1 Bullet Probe, 24" (61.0 cm) Leads, 1" Probe
<b>A/20K-BP</b>	120588	20K Bullet Probe, 24" (61.0 cm) Leads, 1" Probe
<b>A/100KS-BP</b>	120117	100KS Bullet Probe, 24" (61.0 cm) Leads, 1" Probe

**OPTIONAL SENSOR ORDERING**

Model # Example: **A/ 1.8K BP 20' Z NIST**  
A. B. C. D. E. F.

**MODEL #**

<b>A. Sensor Series</b> <i>No Selection Required</i>	<b>A/</b> <span style="border-bottom: 1px solid black; display: inline-block; width: 200px;"></span>	<b>A/</b>
<b>B. Model Series</b> <i>Select One (1)</i>	<b>1.8K   2252   3K   5K   AN   AN-BC   CP   CSI   10KS   10K-E1   20K   100KS</b>	
<b>C. Configuration</b> <i>No Selection Required</i>	<b>BP = 1" Stainless Steel Probe</b> <span style="border-bottom: 1px solid black; display: inline-block; width: 200px;"></span>	<b>BP</b>
<b>D. Lead Length</b> <i>Select One (1)</i>	<b>10' = 10 Feet (3.05m)   20' = 20 Feet* (6.10m)</b>	
<b>E. Lead Wire Type</b> <i>Select One (1)</i>	<b>CL2P = 2 Conductor Plenum Rated Cable   Z = 20' 2 Conductor White Zip Wire only*</b>	
<b>F. NIST</b> <i>Select One (1)</i>	<b>---- = No NIST Certificate   NIST = NIST Certificate (Must Specify 1, 3 or 5 Points)</b>	

**Note\*:** All 20' Sensors are not CE compliant, but are RoHS2 compliant

**ACCESSORIES ORDERING**

Model # Example: **HARDWARE, 1/4" MOUNTING CLIP -OR- 108169**

Model #	Item #	Description	Galvanized Metal	Plastic w/ Adhesive
<b>HARDWARE, 1/4" MOUNTING CLIP</b>	108169	Hardware, 1/4" Mounting Clip	•	
<b>HARDWARE, 1/4" U-MOUNTING CLIP</b>	100090	Hardware, 1/4" U-Mounting Clip Adhesive		•

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