



HIGH ACCURACY BULLET PROBE

1" Bullet Probe, Thermistor

The ACI High Accuracy 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 sensor types. All sensors in this series are manufactured using ACI's proven double encapsulation process to eliminate the effects of moisture upon the sensors as well as 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. Optional wire and cable options or NIST Certificates are available as referenced in the ordering information on the back of the product data sheet.

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

The ACI High Accuracy 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.

PRODUCT SPECIFICATIONS

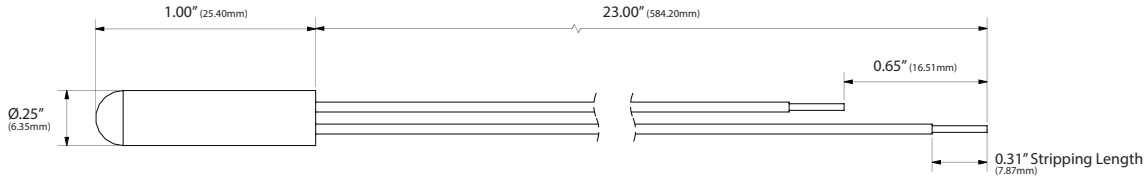
Sensor Type Sensor Curve:	Thermistor Non-Linear, NTC (Negative Temperature Coefficient)
Number Sensing Points:	One
Number Wires:	Two (Non-Polarity Sensitive)
Sensor Output @ 25°C (77°F)	A/O.1AN Series (Type III): 10KΩ nominal (White/Black)
(Lead Wire Colors):	A/O.1CP Series (Type II): 10KΩ nominal (Green/Gray)
Accuracy from 0-70°C (32-158°F) ¹:	+/- 0.1°C (+/- 0.18°F)
Power Dissipation Constant:	A/O.1AN Series: 2 mW/°C nominal A/O.1CP Series: 1 mW/°C nominal
Stability ²:	A/O.1AN Series (5 Years): +/- 0.127°C (0.228°F) @ 100°C (212°F) A/O.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
Probe Material:	304 Stainless Steel
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
Lead Length Conductor Size:	24" (61cm) / 22 AWG (0.65mm)
Lead Wire Insulation Wire Rating:	Etched Teflon Colored Leads MIL-W-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:	0.02 lbs. (9.07g)
Agency Approvals:	CE, RoHS2, WEEE

Note¹: 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) | **Note²:** 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



Standard View

STANDARD ORDERING

Model # Example: **A/0.1AN-BP -OR- 143385**

Model #	Item #	Description
A/0.1AN-BP	143385	AN Bullet Probe, 10K (Type III), 1in Probe 2 ft Lead
A/0.1CP-BP	143386	CP Bullet Probe, 10K (Type II), 1in Probe 2 ft Lead

OPTIONAL SENSOR ORDERING

Model # Example: **A/ 0.1AN BP 6' CL2P NIST**

		MODEL #
A. Sensor Series <i>No Selection Required</i>	A/ <input type="text"/>	A/
B. Model Series <i>Select One (1)</i>	0.1AN = 10K (Type III) 0.1CP = 10K (Type II)	
C. Configuration <i>No Selection Required</i>	BP = 1" Stainless Steel Probe <input type="text"/>	BP
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>Select One (1)</i>	CL2P = 2 Conductor FEP/FEP Plenum Rated Cable Z = 20' 2 Conductor White Zip Wire only	
F. NIST <i>Select One (1)</i>	---- = No NIST Certificate NIST = NIST Certificate (3 Points)	

ACCESSORIES ORDERING

Model # Example: **A/MOUNTING U-CLIP-1/4" -OR- 143352**

Model #	Item #	Description	Galvanized Metal	Plastic w/ Adhesive
A/MOUNTING CLIP-1/4"	143351	Hardware, 1/4" Mounting Clip	●	
A/MOUNTING U-CLIP-1/4"	143352	Hardware, 1/4" U-Mounting Clip Adhesive		●

