



BULLET PROBE

1" Bullet Probe, Nickel RTD



The ACI Nickel Bullet Probe Series features a one inch stainless steel probe with two, 24 inch 22 AWG Etched Teflon colored lead wires to differentiate the many 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 be used to monitor air temperatures and should not be fully submerged in water. This series can be ordered with different wire options and NIST Certification as referenced in the Ordering grid on the back of the product data sheet. Please contact ACI for more information regarding this sensor 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

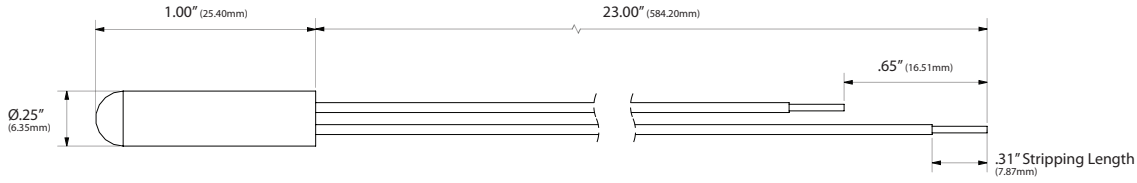
PRODUCT SPECIFICATIONS

Sensor Type Sensor Curve:	Nickel RTD PTC (Positive Temperature Coefficient)
Number Sensing Points:	One
Number Wires:	Two (Non-Polarity Sensitive)
Sensor Output @21.1°C (70°F) Lead Wire Colors:	1000 Ohms nominal Red/Red
Sensor Accuracy:	-40°C (-40°F): +/- 1.52°C (+/- 2.73°F) 0°C (32°F): +/- 0.4°C (+/- 0.72°F) 21.1°C (70°F): +/- 0.17°C (+/- 0.34°F) 54.4°C (130°F): +/- 0.56°C (1.00°F) 121°C (250°F): +/- 1.25°C (+/- 2.25°F)
Din Standard Temperature Coefficient (0-100°C):	Din 43760 6370 ppm/°C
Sensor Stability:	+/- 0.05% after 1000 Hours @ 150°C (302°F)
Response Time (63% Step Change):	8 Seconds nominal
Self-Heating Maximum Operating Current:	0.3°C/mW (Still Air) 5 mA
Probe Material:	304 Stainless Steel
Operating Temperature Range:	-40 to 121°C (-40 to 250°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" (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





DIMENSIONAL DRAWING



Standard View

STANDARD ORDERING

Model # Example: **A/1K-NI-BP -OR- 120490**

Model #	Item #	Description
A/1K-NI-BP	120490	1K Nickel Bullet Probe, 24" (61.0 cm) (Leads, 1" Probe)
A/1K-NI-BP-10'CL2P	130028	1K Nickel Bullet Probe, 10' (3.05m) CL2P Plenum Leads, 1" Probe
A/1K-NI-BP-20'CL2P*	131900	1K Nickel Bullet Probe, 20' (6.10m) CL2P Plenum Leads, 1" Probe
A/1K-NI-BP-20'Z*	130472	1K Nickel Bullet Probe, 20' (6.10m) Zip Cord Leads, 1" Probe

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

OPTIONAL SENSOR ORDERING

Model # Example: **A/ 1K-NI BP 20' CL2P NIST**
A. B. C. D. E. F.

MODEL #

A. Sensor Series <i>No Selection Required</i>	A/ _____ →	A/
B. Model Series <i>No Selection Required</i>	1K-NI _____ →	1K-NI
C. Configuration <i>No Selection Required</i>	BP = 1" Stainless Steel Probe _____ →	BP
D. Lead Length <i>Select One (1)</i>	10' = 10 Feet (3.05m) 20' = 20 Feet* (6.10m)	
E. Lead Wire Type <i>Select One (1)</i>	CL2P = 2 Conductor Plenum Rated Cable Z = 20' 2 Conductor White Zip Wire only**	
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: **HARDWARE, 1/4" MOUNTING CLIP -OR- 108169**

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

