BULLET PROBE
1" Bullet Probe, Nickel RTD

BP

BP-CL2P

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.

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

The ACI Nickel 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.
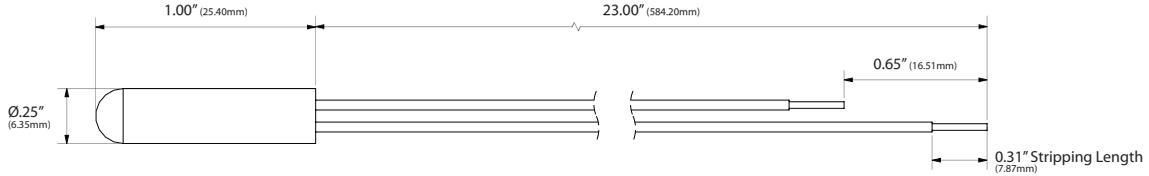
PRODUCT SPECIFICATIONS

**Sensor Type	Sensor Curve:**	Nickel RTD	PTC (Positive Temperature Coefficient)
Number Sensing Points:	One
Number Wires:	Two (Non-Polarity Sensitive)
**Sensor Output @ 21.1ºC (70ºF)	Lead Wire Colors:**	1000 Ohms nominal	Red/Red
Sensor Accuracy:	**-40ºC (-40ºF):** +/- 1.52ºC (+/- 2.73ºF)
	0ºC (32ºF): +/- 0.4ºC (+/- 0.72ºF)
	21.1ºC (70ºF): +/- 0.17ºC (+/- 0.34ºF))
	54.4ºC (130ºF): +/- 0.56ºC (1.00ºF)
	121ºC (250ºF): +/- 1.25ºC (+/- 2.25ºF)
**Din Standard	Temperature Coefficient (0-100ºC):**	Din 43760	6370 ppm/ºC
Sensor Stability:	+/- 0.05% after 1000 Hours @ 150ºC (302ºF)
Response Time (63% Step Change):	8 Seconds nominal
**Self-Heating	Maximum Operating Current:**	0.3ºC/mW (Still Air)	5 mA
Probe Material:	304 Stainless Steel
Operating Temperature Range:	-40 to 121ºC (-40 to 250ºF)
Storage Temperature Range:	-40 to 85ºC (-40 to 185ºF)
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

RoHS COMPLIANT 2002/95/EC

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DIMENSIONAL DRAWING

1.00" (25.40mm) 23.00" (584.20mm)

0.65" (16.51mm)

Ø.25" (6.35mm)

0.31" Stripping Length (7.87mm)

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 | 6'CL2P | NIST
A. | B. | C. | D. | E.

		MODEL #
A. Sensor Series *No Selection Required*	A/	**A/**
B. Model Series *No Selection Required*	1K-NI	**1K-NI**
C. Configuration *No Selection Required*	**BP** = 1" Stainless Steel Probe	**BP**
D. Lead Wire Type *Select One (1)*	**----** = Standard 24" Etched PTFE Colored Leads **6'CL2P** = 6 ft (1.83m), 2 Conductor Plenum Rated Cable **10'CL2P** = 10 ft (3.05m), 2 Conductor Plenum Rated Cable **20'CL2P** = 20 ft (6.10m), 2 Conductor Plenum Rated Cable	
E. NIST *Select One (1)*	**----** = No NIST Certificate | **NIST** = NIST Certificate (Must Specify 1, 3 or 5 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, ¼" Mounting Clip	●	
A/MOUNTING U-CLIP-1/4"	143352	Hardware, ¼" U-Mounting Clip Adhesive		●