

TEMPERATURE | PLATINUM RTDS | BULLET PROBE



BULLET PROBE

1" Bullet Probe, Platinum RTD

The ACI Platinum Bullet Probe Series features a one inch stainless steel probe with two or three, 24 inch, 22 AWG Etched Teflon colored lead wires to differentiate the different sensor types. Note that the three-wire "-3W" option should be ordered if using with a 3-Wire temperature transmitter or sensor configuration on your building management system or PLC (Programmable Logic Controller). The purpose of the 3rd wire is to compensate for any external lead wire resistance that will affect the accuracy of your sensors output signal. For best results, ACI recommends the use of 18 AWG lead wires to reduce the external lead wire resistance when using a Platinum RTD. 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 response time 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, Hydronic Systems

Sensor Type Sensor Curve:	Platinum RTD PTC (Positive Temperature Coefficient)			
Number Sensing Points:	One			
Number Wires:	A/100-2W-BP Series and A/1K-2W-BP Series: Two (Non-Polarity Sensitive)			
	A/100-3W-BP Series and A/1K-3W-BP Series: Three (Polarity Sensitive)			
Sensor Output @ 0°C (32°F):	A/100-xW-BP Series: 100 Ohms nominal A/1K-xW-BP Series: 1000 Ohms nominal			
Sensor Accuracy @ 0°C (32°F):	+/- 0.06% Class A (Tolerance Formula: +/- °C = (0.15°C + (0.002 * t))			
	where $ t $ is the absolute value of Temperature above or below 0°C in °C)			
	-40°C (-40°F): +/- 0.23°C (+/- 0.414°F) 0°C (32°F): +/- 0.15°C (+/- 0.27°F)			
	200°C (392°F): +/- 0.55°C (+/- 0.99°F)			
Din Standard Temperature Coefficient:	DIN EN 60751 (IEC 751) 3850 ppm / ℃			
Sensor Stability:	+/- 0.03% after 1000 Hours @ 300°C (572°F)			
Response Time (63% Step Change):	8 Seconds nominal			
Self-Heating Maximum Operating Current:	100 Ohm RTD: 7 mW/°C (Still Air) 5 mA			
	1K Ohm RTD: 4mW/°C (Still Air) 3 mA			
Operating Storage Temperature Range:	-40 to 200°C (-40 to 392°F) -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			
Probe Material:	304 Stainless Steel			
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			



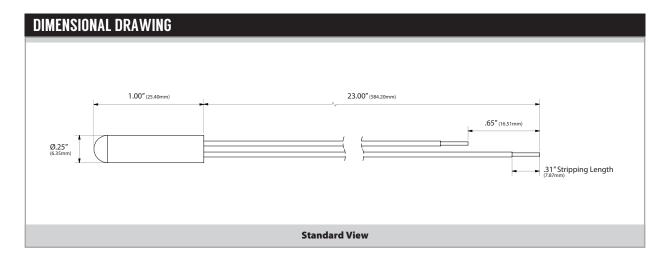






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STANDARD ORDERING Model # Example: A/100-2W-BP -OR- 11993					
Model #	Item #	Description			
A/100-2W-BP	119937	100 Ohm RTD, 2 Wire, Bullet Probe, 24" (61.0 cm) Leads, 1" Probe, Brown/Brown Lead Wires			
A/100-3W-BP	119993	100 Ohm RTD, 3 Wire, Bullet Probe, 24" (61.0 cm) Leads, 1" Probe, Brown/Brown/Black Lead Wires			
A/1K-2W-BP	120262	1K Ohm RTD, 2 Wire, Bullet Probe, 24" (61.0 cm) Leads, 1" Probe, Black/Black Lead Wires			
A/1K-3W-BP	120389	1K Ohm RTD, 3 Wire, Bullet Probe, 24" (61.0 cm) Leads, 1" Probe, Black/Black/White Lead Wires			

OPTIONAL SENSOR ORDERING Model # Example: A/ 100 3W BP 20' CL2P NIST A. B. C. D. E. F. G.				
A. Sensor Series No Selection Required	N	A/		
B. Model Series Select One (1)	100 = 100 Ohm Platinum RTD 1K = 1000 Ohm Platinum RTD			
C. Number of Wires Select One (1)	2W = Two Wires 3W = Three Wires			
D. Configuration No Selection Required	BP = 1" Stainless Steel Probe —	BP		
E. Lead Length Select One (1)	= Standard 24" Teflon Leads 10' = 10 Feet (3.05m) 20' = 20 Feet* (6.10m)			
F. Lead Wire Type Select One (1)	= Standard 24" Teflon Leads CL2P = 2 or 3 Conductor Plenum Rated Cable			
G. NIST Select One (1)	= No NIST Certificate NIST = NIST Certificate (Must Specify 1, 3 or 5 Points)			

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

ACCESSORIES ORDERING Model # Example: HARDWARE, 1/4" MOUNTING CLIP - OR- 14					
Model #	Item #	Description	Galvanized Metal	Plastic w/ Adhesive	
HARDWARE, ¼" MOUNTING CLIP	108169	Hardware, ¼" Mounting Clip	•		
HARDWARE, ¼" U-MOUNTING CLIP	100090	Hardware, ¼" U-Mounting Clip Adhesive		•	





