TEMPERATURE | PLATINUM RTDS | PROBE ONLY





PROBE ONLY

Stainless Steel Prode, Platinum RTD

The ACI Platinum Probe Only Series features a 1/4" diameter stainless steel probe with two or three, 14 or 24 inch, 22 AWG Etched Teflon colored lead wires to differentiate the different sensor types. 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 your sensor output. ACI recommends the use of an 18 AWG lead wires to reduce the external lead wire resistance when using a Platinum RTD sensor. The sensors in this series are manufactured using ACI's proven double encapsulation process to eliminate the effects of moisture on the sensors and to increase the thermal response time using our high

quality, thermally conductive epoxy. The probe is designed to be used in duct and immersion applications when used with the proper length thermowell. Optional lead length, cable types and NIST Certificates are available as referenced in the ordering grid on the Product Data Sheet.

 $\textbf{Applications:} \ Roof Top \ Units, Air \ Handlers, Supply/Discharge \ Air/Return/Mixed/Exhaust \ Air \ Duct \ Temperature \ Sensing, Immersion \ Sensing, Immersion \ Temperature \ Sensing, Immersion \ Sensin \ Sensing, Immersion \ Sensing, Immersion \ Sensing, Immersion$ Sensors, Replacement Temperature Sensors, Hydronic Water Systems

The ACI Platinum RTD Probe Only 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, workaci.com.

Sensor Type Sensor Curve:		Platinum RTD PTC (Positive Temperature Coefficient)		
Number Sensing Points:		One		
Number Wires:		A/100-2W-PO-XX" Series and A/1K-2W-PO-XX Series: Two (Non-Polarity Sensitive)		
		A/1K-2W-PO-XX" Series and A/1K-3W-PO-XX Series: Three (Polarity Sensitive)		
Sensor Output @ 0°C (32°F):		A/100-xW-PO Series: 100 Ohms nominal A/1K-xW-PO Series: 1000 Ohms nominal		
Sensor Accuracy @ 0°C (32°F):		+/- 0.06% Class A (Tolerance Formula: +/- $^{\circ}$ C = (0.15 $^{\circ}$ C + (0.002 * t))		
		where $ t $ is the absolute value of Temperature above or below 0° C in $^{\circ}$ 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 / °C		
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		
Probe Material:		304 Stainless Steel		
	Lead Wire Insulation Wire Rating:	Etched Teflon (PTFE) Colored Leads MIL-W-16878/4 (Type E)		
c	Temperature Rating:	-55°C (-67°F) to 200°C (392°F)		
Standard Wire	Conductor Material:	Silver Plated Copper		
	Rated Application:	Suitable for Indoor and Outdoor (wet) location. Oil, Moisture, Acids, Oils and Moisture Resistant		
	Lead Length Conductor Size:	4", 6" and 8" Probes: 14" (35.6 cm) 12" and 18" Probes: 24" (61cm) 22 AWG (0.65mm)		
Plenum Wire	Lead Wire Insulation Wire Rating:	CL2P: FEP (Fluorinated Ethylene Propylene) TYPE CL2P - TYPE CMP 22 AWG (UL), C(UL) FEP/FEP E130356 ROH		
	Temperature Rating:	CL2P: -80°C (-112°F) to 150°C (302°F)		
	Conductor Material:	CL2P: Tinned Copper		
	Rated Application:	CL2P: Suitable for Indoor and Outdoor (wet) locations. Oil, Gas, Sunglight, Abrasion Acid Resistant		
Product Dimensions Probe Diameter:		See table on back of product data sheet 0.250" (6.35mm)		
Product Weight:		4" = 0.028 lbs. (12.7g) 6" = 0.036 lbs. (16.3g) 8" = 0.044 lbs. (20g)		
		12" = 0.066 lbs. (29.9g) 18" = 0.09 lbs. (40.8g)		
Agency Approvals:		CE, RoHS2, WEEE		



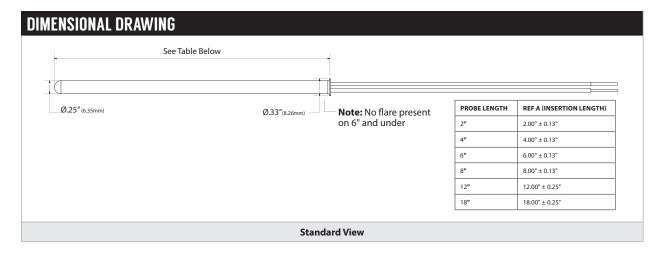






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CUSTOM ORDERING	MODEL#EXAMPLE: A/ 1K 2W PO 4" 6'CL2P NIST A. B. C. D. E. F. G.	MODEL #	
A. Sensor Series ¹ No Selection Required	A/	A/	
B. Model Series Select One (1)	100 = 100 Ohm Platinum RTD 1K = 1000 Ohm Platinum RTD		
C. Number of Wires Select One (1)	2W = Two Wires 3W = Three Wires		
D. Configuration Select One (1)	PO = Probe Only	РО	
E. Probe Length Select One (1)	2" = 2" Probe 4" = 4" Probe 6" = 6" Probe 8" = 8" Probe 12" = 12" Probe 18" = 18" Probe		
F. Lead Wire Options Select One (1)	= Standard 14 or 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		
G. NIST Select One (1)	= No NIST Certificate NIST = NIST Certificate (3 Points)		

ACCESSORIES ORDERING		Model # Example: NSG HEATTRANSFER PASTE 20Z - OR- 102595
Model #	Item #	Description
NSG HEAT TRANSFER PASTE 20Z	102595	Thermal Grease, 2 oz. Tube, Silicone Free, -40 to 320°F (-40 to 160°C)
NSG HEAT TRANSFER PASTE 16OZ	140574	Thermal Grease, 16 oz. Jar, Silicone Free, -40 to 390°F (-40 to 198°C)



