TEMPERATURE | PLATINUM RTDS | RIGID AVERAGING



RIGID AVERAGING Continuous Averaging, Platinum RTD

The ACI Platinum Rigid Averaging features a stainless steel probe with Etched Teflon colored lead wires to differentiate the different sensor types. The three-wire "-3W" option should be ordered when 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 external lead wire resistance that affects the accuracy of your sensor output. ACI recommends the use of 18 AWG lead wires to reduce external lead wire resistance when using a Platinum RTD. The rigid averaging sensors include a continuous sensing element, which covers the entire length of the probe. This allows for a better average temperature over the entire length of the sensor when compared to that of a single point duct sensor or multi-point averaging sensor. These sensors are hermetically sealed with epoxy to ensure that moisture and other contaminants can't affect the sensing element. The Rigid Averaging sensor

also includes a foam pad to seal the duct and dampen vibrations once installed. The sensor length should be determined by the width or diameter of your duct such that the sensor covers most of the internal width or height of the duct. Our standard enclosure options include the "-GD" galvanized or "-PB" plastic duct enclosure with hinged cover. On larger ducts, our Platinum bendable copper averaging sensor can be used for larger ducts and increased coverage area. This series can be ordered with optional NEMA/IP rated weather proof enclosures and NIST Certificates as referenced in the ordering grid.

Applications: Roof Top Units, Air Handlers, Monitoring Duct Supply/Discharge/Return/Mixed Air Temperatures

The ACI Platinum Rigid Averaging 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.

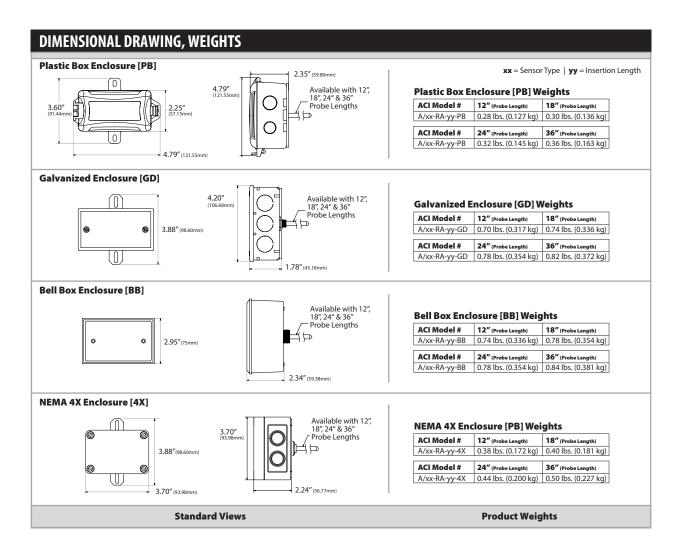
PRODUCT SPECIFICATIONS

Sensor Type Sensor Curve:	Platinum RTD PTC (Positive Temperature Coefficient)		
Number Sensing Points:	Continuous		
Number Wires:	A/1K-2W-RA-xx": Two (Non-Polarity Sensitive) A/1K-3W-RA-xx": Three (Polarity Sensitive		
Sensor Output @ 0°C (32°F):	1000 Ohms nominal		
Sensor Accuracy:	+/- 0.1% @ 0ºC (32ºF) +/- 0.25% @ 21ºC (70ºF) +/- 1.0% @ 130ºC (266ºF)		
Temperature Coefficient:	3850 ppm / °C		
Response Time (63% Step Change):	15 Seconds nominal		
Sensor Operating Temperature Range:	-40 to 135°C (-40 to 275°F)		
Enclosure Specifications (Temperature Rang	, "-GD" Enclosure: -40 to 115°C (-40 to 239°F); Galvanized Steel; NEMA 1 (IP10)		
Material, Flammability, NEMA/IP Ratings):	"-PB" Enclosure: -30 to 90°C (-22 to 194°F); ABS Plastic; UL94-HB; Plenum Rated		
	"-BB" Enclosure: -40 to 115°C (-40 to 239°F); Aluminum; NEMA 3R (IP 14)		
	"-4X" Enclosure: -40 to 70°C (-40 to 158°F); Polystyrene Plastic; UL94-V2; NEMA 4X (IP 66)		
Storage Temperature Range:	-40 to 85°C (-40 to 185°F)		
Operating Humidity Range:	10 to 95% RH, non-condensing		
Probe Material:	304 Series Stainless Steel		
Probe Diameter:	0.250″ (6.35mm)		
Fitting Material Flammability Rating:	Polyamide 66 (High Performance Nylon) UL94-HB		
Foam Pad Material Flammability Rating:	Neoprene/EPDM/SBR Polymer UL94-HBF; FMVSS-302; MIL-R-6130C		
Lead Length Conductor Size:	12" (30.5cm) 22 AWG (0.65mm)		
Lead Wire Insulation Wire Rating:	Etched Teflon (PTFE) Colored Leads Mil Spec 16878/4 Type E)		
Conductor Material:	Silver Plated Copper		
Product Dimensions Product Weight:	See table on back of Product Data Sheet		
Agency Approvals:	CE, RoHS2, WEEE		

Dpstar Group

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TEMPERATURE | PLATINUM RTDS | FLEXIBLE AVERAGING



CUSTOM ORDERING	Model∉Stample: A/ 1K 2W RA 36" GD NIST A. B. C. D. E. F. G.	MODEL#
A. Sensor Series No Selection Required	A/	A /
B. Model Series No Selection Required	1K = 1K Ohm Platinum RTD	1K
C. Number of Wires Select One (1)	2W = Two Wires 3W = Three Wires	
D. Configuration No Selection Required	RA = Rigid Averaging Sensors	RA
E. Probe Length Select One (1)	12" = 12" (30.5 cm) Probe 18" = 18" (45.72 cm) Probe 24" = 24" (61 cm) Probe 36" = 36" (91.45 cm) Probe	
F. Enclosure Select One (1)	GD = Galvanized PB = Plastic BB = Aluminum, NEMA 3R 4X = NEMA 4X	
G. NIST Select One (1)	= No NIST Certificate NIST = NIST Certificate (3 Points)	

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