HUMIDITY | PLATINUM RTDS | RH WALL PLATE







RH WALL PLATE

Relative Humidity, Wall Plate, Platinum RTD

The ACI Relative Humidity with Platinum RTD Wall Plate Series utilizes a thermoset polymer capacitive sensing element with a factory applied hygroscopic filter to deliver a proportional analog voltage output signal. The hygroscopic filter provides added resistance to moisture, dust, and other chemicals for greater long term reliability. The RH Stainless Plate transmitter features integral DIP switches for field selection of the proper output signal and supply voltage to meet your applications requirements. Each unit also contains 0%, 50%, and 100% test options to verify that the transmitter is both working and properly installed. Field calibration can be performed by using the increment and decrement calibration DIP switches without the need to replace the sensing element. These

enhancements provide increased flexibility and outstanding long-term reliability. All RH Stainless Plate transmitters come standard with an attractive brushed finish stainless steel, single gang wall mounting plate and are designed to mount over a single gang junction box in the wall. The PCBs are conformally coated for added protection from moisture and other contaminants. A temporary plastic sensor cover is included to $provide\ protection\ for\ the\ RH\ sensor\ from\ chemicals\ used\ in\ wash\ down\ applications. Three\ point\ NIST\ Calibration\ Certificates\ are\ available.$

Applications: Pharmaceutical, Hospitals, Operating Rooms, Vivariums, Clean Rooms, Process Control, Wash Down Environments & Stability Chambers

The ACI RH Platinum RTD Wall Plate 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.

RH Supply Voltage (Reverse Polarity Protected):	0-5 VDC: 12 - 40 VDC / 18 - 28 VAC 0-10 VDC: 18 - 40 VDC / 18 - 28 VAC	
RH Supply Current (VA):	8 mA maximum (0.32 VA)	
RH Output Load Resistance:	4K Ohms Minimum	
RH Output Signal:	3-wire: 0-5 or 0-10 VDC	
RH Accuracy @ 77°F (25°C):	+/- 2% or 3% from 10 to 95%	
RH Measurement Range:	0-100%	
Operating RH Range:	0 to 95% RH, non-condensing (Conformally Coated PCB's)	
Operating Temperature Range:	-40 to 140°F (-40 to 60°C)	
Storage Temperature Range:	-40 to 149°F (-40 to 65°C)	
RH Stability Repeatability Sensitivity:	Less than 2% drift / 5 years 0.5% RH 0.1% RH	
RH Response Time (T63):	20 Seconds Typical	
RH Sensor Type:	Capacitive with Hydrophobic Filter	
RH Transmitter Stabilization Time:	30 Minutes (Recommended time before doing accuracy verification)	
RH Connections Wire Size:	Screw Terminal Blocks (Polarity Sensitive) 16 (1.31 mm²) to 26 AWG (0.129 mm²)	
RH Terminal Block Torque Rating:	4.43 to 5.31 lb-in (0.5 to 0.6 Nm)	
RH NIST Test Points:	Default Test Points: 3 Points (20%, 50% & 80%)	
Platinum RTD (PTC) Number Wires (Wire Colors):	RHx-100-2W Series: (Brown/Brown) & RHx-2W-1K Series: (Black/Black) RHx-100-3W Series: (Brown/Brown/Black) & RHx-3W-1K Series: (Black/Black/White)	
Platinum RTD Output @ 32°F (0°C):	RHx-100-xW-SP Series: 100 Ohms nominal RHx-1K-xW-SP Series: 1000 Ohms nominal	
Platinum RTD Tolerance Class:	+/-0.06% Class A Tolerance Formula: +/-°C = (0.15°C + (0.002 * t)	
Platinum RTD Din Standard:	DIN EN 60751 (IEC 751)	
	3850 ppm/ °C	
	3850 ppm/°C +/-0.03% after 1000 Hours @ 572°F (300°C)	
Platinum RTD Stability:		
Platinum RTD Stability: Lead Wire Length Conductor Size:	+/-0.03% after 1000 Hours @ 572°F (300°C)	
Platinum RTD Stability: Lead Wire Length Conductor Size: Insulation Rating:	+/-0.03% after 1000 Hours @ 572°F (300°C) 14″ (35.6 cm) 22 AWG (0.65 mm)	
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. Platinum RTD Stability: Lead Wire Length Conductor Size: Insulation Rating: Wall Plate Material: Foam Material Foam Thickness:	+/-0.03% after 1000 Hours @ 572°F (300°C) 14" (35.6 cm) 22 AWG (0.65 mm) Etched Teflon (PTFE) Colored Leads Mil Spec 16878/4 Type E 430 Stainless Steel (Brushed Stainless Steel Finish)	
. Platinum RTD Stability: Lead Wire Length Conductor Size: Insulation Rating: Wall Plate Material: Foam Material Foam Thickness: Foam Flammability Rating:	+/-0.03% after 1000 Hours @ 572°F (300°C) 14" (35.6 cm) 22 AWG (0.65 mm) Etched Teflon (PTFE) Colored Leads Mil Spec 16878/4 Type E 430 Stainless Steel (Brushed Stainless Steel Finish) Cross-linked LPDE (White) 0.25" (6.35 mm)	
Temperature Coefficient: Platinum RTD Stability: Lead Wire Length Conductor Size: Insulation Rating: Wall Plate Material: Foam Material Foam Thickness: Foam Flammability Rating: Sintered Filter Material: Product Dimensions (L x W x D):	+/-0.03% after 1000 Hours @ 572°F (300°C) 14" (35.6 cm) 22 AWG (0.65 mm) Etched Teflon (PTFE) Colored Leads Mil Spec 16878/4 Type E 430 Stainless Steel (Brushed Stainless Steel Finish) Cross-linked LPDE (White) 0.25" (6.35 mm) FMVSS-302	
Platinum RTD Stability: Lead Wire Length Conductor Size: Insulation Rating: Wall Plate Material: Foam Material Foam Thickness: Foam Flammability Rating: Sintered Filter Material:	+/-0.03% after 1000 Hours @ 572°F (300°C) 14" (35.6 cm) 22 AWG (0.65 mm) Etched Teflon (PTFE) Colored Leads Mil Spec 16878/4 Type E 430 Stainless Steel (Brushed Stainless Steel Finish) Cross-linked LPDE (White) 0.25" (6.35 mm) FMVSS-302 304 Series Stainless Steel	

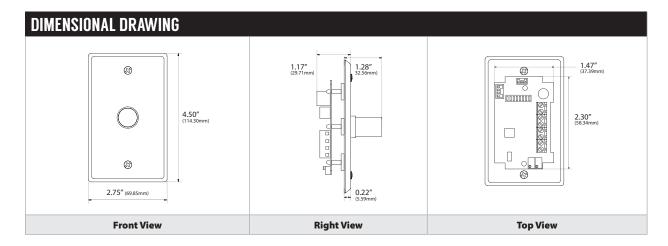






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Note*: Outputs are field selectable between 0-5 VDC & 0-10 VDC

ACCESSORIES ORDERING		Model # Example: A/SINTERED FILTER -OR- 143433
Model #	Item #	Description
A/SINTERED FILTER	143433	3/8" Sintered Filter for RH Duct/Stainless Plate/Remote Probes
A/1"VINYL PULL CAP	143462	1" EZ Vinyl Filter Cover for RH Stainless Plates & Remote Probes





