

## **ROOM**

## Wall Mount Enclosure, Platinum RTD

The ACI Platinum Room Series combines flexibility with attractive styling in our "-R2" or "-R" style enclosures which include four-way air flow design too minimize self-heating to the sensor. These enclosures are offered in a White "-R2" or Beige "-R" color depending on enclosure style and designed to be mounted over a single gang junction box or hole in the wall using drywall anchors. An optional LCD Display is available in the Beige "-R" style enclosure. Screw terminal blocks are provided for making connections to your building management system. An optional 1/8" Black foam pad with pressure sensitive adhesive is available to insulate the sensor from thermal drafts within the wall or wall surface temperature. A 1/16'' Hex driver can be used to secure the cover from being easily removed. The "LCD" option uses two temperature sensors to monitor the ambient air temperature in the space and is factory calibrated at a single point.

Applications: Space Temperature Sensing, Office Buildings, Schools, Colleges, Commercial Buildings, OEM Opportunities

The ACI Platinum Room 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 web site, workaci.com.

Sensor Type   Sensor Curve:	Platinum RTD   PTC (Positive Temperature Coefficient)		
Number Sensing Points:	One		
Number Sensor Terminals:	A/100-2W Series and A/1K-2W Series: Two (Non-Polarity Sensitive) A/100-3W Series and A/1K-3W Series: Three (Polarity Sensitive)		
Sensor Output @ 32°F (0°C):	A-100-xW Series: 100 Ohms   A/1K-xW Series: 1000 Ohms Nominal		
Sensor Accuracy @ 32°F (0°C):	+/- 0.06% Class A ( <b>Tolerance Formula:</b> +/- °C = (0.15°C + (0.002 *  t )) where  t  is the absolute value of Temperature above or below 0°C in °C <b>0°C (32°F):</b> +/- 0.15°C (+/- 0.27°F)   <b>50°C (122°F):</b> +/- 0.25°C (+/- 0.45°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:	<b>100 Ohm RTD:</b> 7 mW/°C (Still Air)   5 mA   <b>1K Ohm RTD:</b> 4 mW/°C (Still Air)   3 mA		
LCD Display Supply Voltage:	+9 to 35 VDC / 24 VAC (50/60 Hz)		
LCD Display Supply Current/VA:	<4 mA / 0.12VA		
LCD Display Accuracy:	+/- 2°F or +/- 2°C @ 71°F (21.5°C) Typical		
LCD Display Descriptor   Number of Digits:	°F (Fahrenheit) or °C (Celsius)   3 1/2 Segment Display		
LCD Display Life Expectancy:	50,000 Hours Minimum		
Set Point Specifications   Set Point Indication:	See Ordering Grid Options on back of Product Data Sheet		
Set Point Tolerance:	+/- 10% of Range		
Override Options:	Short Thermistor (Default); Field (Jumper) Selectable "Dry Contact" Closure (Separate Input); Short Set Point available upon request		
Operating   Storage Temperature Range:	1.5 to 50°C (35 to 122°F)   <b>Non-LCD:</b> -40 to 65°C (-40 to 149°F)   <b>LCD Display:</b> -10 to 65°C (14 to 149°F)		
Operating Humidity Range:	10 to 95% RH, non-condensing		
Connections   Wire Size:	Screw Terminal Blocks (Non-Polarity Sensitive)   16 AWG (1.31 mm²) to 26 AWG (0.129 mm²)		
Terminal Block Torque Rating:	0.5 Nm (Minimum)   0.6 Nm (Maximum)		
Enclosure Material   Flammability Rating   Color:	"-R2" Enclosure: ABS Plastic, UL94-HB, White   "-R" Enclosure: ABS Plastic, UL94-HB, Beige		
Product Dimensions:	See Drawing on back of Product Data Sheet		
Product Weight:	A/1K-2W/3W-R/RS/RO Series: 0.14 lbs. (63.5g)   A/1K-2W/3W-RSO Series: 0.18 lbs. (81.6g)   A/1K-2W/3W-R2/R2S/R2O Series: 0.16 lbs. (72.6g)   A/1K-2W/3W-R2SO Series: 0.20 lbs. (90.7g)   A/1K-2W/3W-RSO-RJ6-LCD Series: 0.18 lbs. (81.6g)   All LCD Display Units: 0.18 lbs. (81.6g)		

Note\*\*: All LCD Display Units are not CE Compliant, but they are RoHS2 Compliant



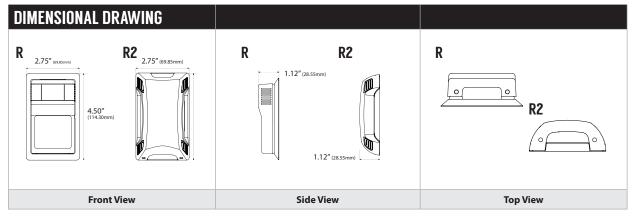






## TEMPERATURE | PLATINUM RTDS | ROOM





STANDARD ORDERING				
Model #	ltem #	Description		
A/100-2W-R	144136	100 Platinum RTD (2 Wire), "R" Version, Beige, No Options		
A/100-2W-R2	144138	100 Platinum RTD (2 Wire), "R2" Version, White, No Options		
A/100-3W-R	144137	100 Platinum RTD (3 Wire), "R" Version, Beige, No Options		
A/100-3W-R2	144139	100 Platinum RDT (3 Wire), "R2" Version, White, No Options		
A/1K-2W-R	144154	1K Platinum RTD (2 Wire),"R" Version, Beige, No Options		
A/1K-2W-R2	144156	1K Platinum RTD (2 Wire), "R2" Version, White, No Options		
A/1K-3W-R	144155	1K Platinum RTD (3 Wire), "R" Version, Beige, No Options		
A/1K-3W-R2	144157	1K Platinum RTD (3 Wire), "R2" Version, White, No Options		

CUSTOM ORDERING		MODEL #		
A. Sensor Series <sup>1</sup> No Selection Required	A/	A/		
B. Model Series Select One (1)	100 = 100 Ohm Platinum RTD   1K = 1K Ohm Platinum RTD			
C. Configuration Select One (1)	R = Room   RO = Room with Override   RS = Room with Set Point    RSO = Room with Setpoint and Override   R2 = Room   R2O = Room with Override    R2S = Room with Set Point   R2SO = Room with Set Point and Override			
D. Communication Jack Select One (1)	= No Jack <b>RJ4</b> = 4 Pin 4 Conductor RJ9, RJ10 or RJ22 Style Head Set Modular Connector <b>RJ6</b> = 6 Pin 6 Conductor RJ12 Modular Phone Connector <b>232</b> = 3.5mm (1/8") Stereo Jack			
E. LCD Display <sup>2</sup> Select One (1)	= No LCD Display   LCD <sup>2</sup> = With LCD Display (Only Available with "R" Style Enclosure)			
F. LCD Display Descriptor Select One (1)	<b>F</b> = °F (Fahrenheit)   <b>C</b> = °C (Celsius)			
G. NIST <sup>3</sup> Select One (1)	= No NIST Certificate   <b>NIST</b> = NIST Certificate (3 Points)			
Setpoint Configuration Options Select Options below if RS, RSO, R2S or R2SO was selected as a Configuration (C)				
1. Slidepots <sup>4</sup> Select One (1)	Direct Acting (Range in Ohms)  A01 = 0 to 100K   A02 = 0 to 20K   A03 = 0 to 10K   A08 = 1K to 11K   A09 = 0 to 2K    A10 = 0 to 1K   A12 = 0 to 400   A16 = 0 to 5K   A28 = 806 to 1206    A32 = 900 to 1300  Reverse Acting (Range in Ohms)  A14 = 10K to 0			
2. Setpoint Indication Select One (1)	A3 = 18-28 DEG C   A4 = 20-30 DEG C   B4 = 55-85 DEG F   B7 = 60-90 DEG F    C5 = COOL/WARM   C6 = COOLER/WARMER   D3 = WARM/COOL    G5 = BLUE/RED (R2 Enclosure)			

**Note**<sup>1</sup>: A/ part numbers come without logo. For custom logo, replace A/ with Company abbreviation. Please contact ACI | **Note**<sup>2</sup>: LICD Display is not compatible with NIST | **Note**<sup>3</sup>: NIST is available in "R" and "R2" only configurations | **Note**<sup>4</sup>: Other Setpoint configurations are available. Please contact ACI | **Note**<sup>4</sup>: Short Sensor is factory default, but the Dry Contact option is field selectable with jumper shunts included











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ACCESSORIES ORDERING					
Model #	item#	Description			
A/MOUNTING PLATE BEIGE R	106821	Wall Mounting Back Plate, Plastic, Beige ("R")			
A/MOUNTING PLATE WHITE R	126386	Wall Mounting Back Plate, Plastic, White ("R")			
A/MOUNTING PLATE WHITE R2	143369	Wall Mounting Back Plate, Plastic, White ("R2")			
LOCKING COVER	107370	Clear Thermostat Guard, Locking Cover, Low Profile			
A/ROOM-FOAM-PAD	125690	1/8" Foam Insulation Pad with Adhesive (3" x 2", Black)			

















