

ROOM

Wall Mount Enclosure, Nickel RTD

The ACI Nickel Room Series combines option flexibility with attractive styling in our "-R2" or "-R" style enclosures which both 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 the enclosure style. All units are designed to be mounted over a single gang junction box or hole in the wall with the use of drywall anchors. Screw terminal blocks are provided for making all connections to the temperature sensor, Set Point, "After Hours" Override, and Communication Jacks for easy access 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 should 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, Decorative Wall Sensor Applications, Office Buildings, Schools, Colleges, Commercial Buildings, OEM Opportunities

The ACI Nickel 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.

PRODUCT SPECIFICATIONS		
Sensor Type Sensor Curve:	Nickel RTD PTC (Positive Temperature Coefficient)	
Number Sensing Points:	One	
Sensor Output @ 21.1°C (70°F):	1000 Ohms Nominal	
Sensor Accuracy:	0°C (32°F): +/- 0.4°C (+/- 0.72°F) 21.1°C (70°F): +/- 0.17°C (+/- 0.34°F) 54.4°C (130°F): +/- 0.56°C (1°F	
Din Standard Temperature Coefficient (0-100°C):	Din 43760 6370 ppm/°C	
Sensor Stability:	+/- 0.05% after 1000 Hours @ 150°C (302°F)	
Response Time (63% Step Change):	8 Seconds Nominal	
Self-Heating Maximum Operating Current:	0.3 mW/°C (Still Air) 5 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; Short Set Point available upon request	
Operating Storage Temperature Range:	1.5 to 50°C (35 to 122°F) Non-LCD: -40 to 65°C (-40 to 149°F) LCD Display: -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	
	A/1K-NI-R/RS/RO Series: 0.14 lbs. (63.5g) A/1K-NI-RSO Series: 0.18 lbs. (81.6g)	
Product Weight:	A/1K-NI-R2/R2S/R2O Series: 0.16 lbs. (72.6g) A/1K-NI-R2SO Series: 0.20 lbs. (90.7g)	
	All LCD Display Units: 0.18 lbs. (81.6g)	
Agency Approvals:	CE**, RoHS2, WEEE	

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



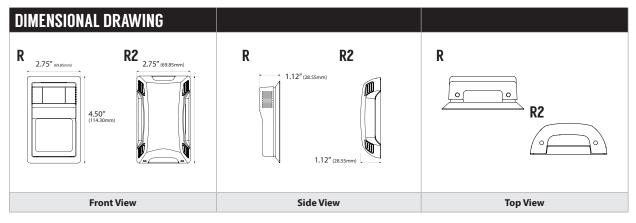












STANDARD ORDERING					
Model #	Item #	Description			
A/1K-NI-R	144152	1K Nickel RTD, "R" Version, Beige, No Options			
A/1K-NI-R2	144153	1K Nickel RTD, "R2" Version, White, No Options			

CUSTOM ORDERING		
A. Sensor Series ¹ No Selection Required	A/	A/
B. Model Series Select One (1)	1K-NI	1K-NI
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)	ect One (1) RJ4 = 4 Pin 4 Conductor RJ9, RJ10 or RJ22 Style Head Set Modular Connector RJ6 = 6 Pin 6 Conductor RJ12 Modular Phone Connector 232 = 3.5mm (1/8") Stereo Jack	
E. LCD Display ² Select One (1)	= No LCD Display LCD ² = With LCD Display (Only Available with "R" Style Enclosure)	
F. LCD Display Descriptor Select One (1)	$\mathbf{F} = {}^{\circ}\mathbf{F}$ (Fahrenheit) $ \mathbf{C} = {}^{\circ}\mathbf{C}$ (Celsius)	
G. NIST ³ Select One (1)	= No NIST Certificate NIST = NIST Certificate (3 Points)	
Setpoint Configuration Options Select Options	otions below if RS, RSO, R2S or R2SO was selected as a Configuration (C)	
1. Slidepots ⁴ Select One (1)	Direct Acting (Range in Ohms) A02 = 0 to 20K A03 = 0 to 10K A09 = 0 to 2K A10 = 0 to 1K	
A3 = 18-28 DEG C A4 = 20-30 DEG C B4 = 55-85 DEG F B7 = 60 2. Setpoint Indication Select One (1) C5 = COOL/WARM C6 = COOLER/WARMER D3 = WARM/COOL G5 = BLUE/RED (R2 Enclosure)		

Note¹: A/ part numbers come without logo. For custom logo, replace A/ with Company abbreviation. Please contact ACI | Note²: LICD Display is not compatible with NIST | Note³: NIST is available in "R" and "R2" only configurations | Note*: Other Setpoint configurations are available. Please contact ACI | Note*: Short Sensor is factory default, but the Dry Contact option is field selectable with jumper shunts included

ACCESSORIES ORDERING					
Model #	ltem#	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)			







