



ROOM

Wall Mount Enclosures, Thermistor

The ACI Thermistor Room Series combines option 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 the enclosure style. These units are designed to be mounted over a single gang junction box or hole in the wall using drywall anchors. Screw terminal blocks are available for making all connections to your building management system (network). 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. A 1/16” Hex driver is needed to secure the cover from being easily removed. All Room sensors are customized to work with your building management system, so a unique, six digit Config ID Code on the outside label so that it is easy to identify and reorder in the future. Please

contact ACI for more information regarding the wall mount sensors or to discuss your application in further detail. Other options may be available upon request. 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 Thermistor Room 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

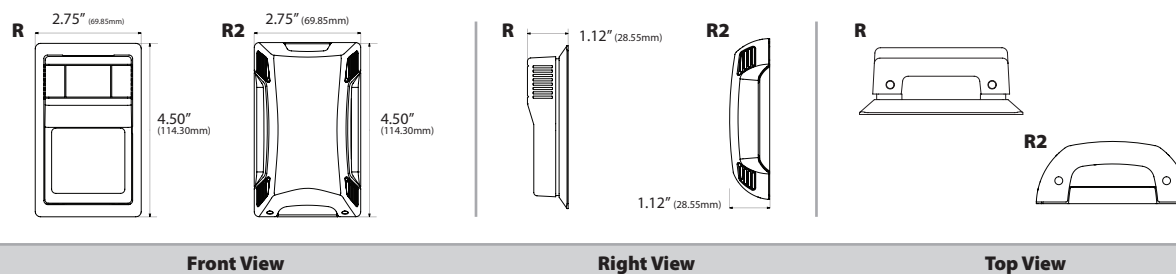
Sensor Type Sensor Curve:	Thermistor Non-Linear, NTC (Negative Temperature Coefficient)	
Number Temperature Sensing Points:	One	
Sensor Output @ 25°C (77°F):	A/1.8K Series: 1.8K Ω nominal	A/CP Series (Type II): 10K Ω nominal
	A/3K Series: 3K Ω nominal	A/CSI Series: 10K Ω nominal
	A/AN Series (Type III): 10K Ω nominal	A/10KS Series: 10K Ω nominal
	A/AN-BC Series: 5.238K Ω nominal	A/10K-E1 Series: 10K Ω nominal
	A/20K Series: 20K Ω nominal	A/100KS Series: 100K Ω nominal
Accuracy 0-70°C (32-158°F):	+/-0.2°C (+/-0.36°F) except A/10K-E1 Series: +/-0.3°C (+/-0.54°F)	
	A/1.8K Series: +/-0.5°C @ 25°C (77°F) and +/-1.0°C (+/-1.8°F)	
Stability:	Sensor Dependent; Contact ACI for more information on specific sensor	
Response Time (63% Step Change):	10 Seconds nominal	
Power Dissipation Constant:	3 mW/°C except A/1.8K Series: 1 mW/°C A/10K-E1 Series: 2 mW/°C	
LCD Display Supply Voltage:	+9 to 35 VDC / 24VAC (50/60 Hz)	
LCD Display Supply Current/VA:	< 4mA / 0.12VA	
LCD Display Accuracy:	+/- 2°F or +/- 2°C @ 71°F (21.5°C) Typical	
LCD Display Descriptor:	°F (Fahrenheit) or °C (Celsius)	
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 Option:	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) 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 16 (1.31mm ²) to 26 (0.129 mm ²) AWG	
Terminal Block Torque Rating:	0.5 Nm (Minimum); 0.6 Nm (Maximum)	
LCD Supply Voltage:	+12 to 36 VDC or 24VAC Nominal 50/60 HZ	
LCD Descriptor Number of Digits	°F (Fahrenheit) or °C (Centigrade) 3 42 Segment Display	
Enclosure Material Color:	“-R2” Enclosure: ABS; Plastic, Wite, UL94-HB “R” Enclosure: ABS Plastic, Beige UL94-HB	
Product Dimensions:	See Drawing on back of Product Data Sheet	
Product Weight:	A/XX-R/RS/RO Series: 0.14 lbs. (63.5g) A/XX-RSO Series: 0.18 lbs. (81.6g) A/XX-R2/R2S/R2O Series: 0.16 lbs. (72.6g) A/XX-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





DIMENSIONAL DRAWING



CUSTOM ORDERING

Model # Example: A/ 1.8K RS RJ6 LCD F 0 Ohm 1k Ohms DA Cool/Warm DC

MODEL

A. Sensor Series No Selection Required	A/
B. Model Series Select One (1)	1.8K 3K AN AN-BC CP CSI 10KS 10K-E1 20K 100KS
C. Configuration Select One (1)	R = Room RO = Room with Override RS = Room with Set Point R5O = Room with Set Point 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 RJ4 = 4 Pin 4 Conductor RJ9, RJ10, or RJ22 Style Head Set Modular Connector RJ6 = 6 Pin 6 Conductor RJ12 Modular Phone Connector RS232 = 3.5mm (1/8") Stereo Jack
E. LCD Display Select One (1)	---- = No LCD Display LCD = With LCD Display (Only Available with "R" Style Enclosure)
F. LCD Display Descriptor Select One (1)	F = °F (Fahrenheit) C = °C (Celsius)
G. NIST** Select One (1)	---- = No NIST Certificate NIST = NIST Certificate (Must Specify 1, 3 or 5 Points)
Setpoint Configuration Options Select Options below if RS, R5O, R2S or R2SO was selected as a Configuration (C).	
1. Offset Resistor Select One (1)	0 Ohm 51.1 Ohm 200 Ohm 499 Ohm 750 Ohm 806 Ohm 910 Ohm 1.00K 2.00K 2.37K 2.49K 4.75K 4.99K 6.19K 7.32K 8.25K 10K 20K
2. Potentiometer Select One (1)	400 Ohm 1K Ohms 2K Ohms 5K Ohms 8.5K Ohms 10K Ohms 20K Ohms 100K Ohms
3. Setpoint Direction Select One (1)	DA = Direct Acting (Left to Right (Smaller to Larger)) RA = Reverse Acting (Left to Right (Larger to Smaller))
4. Setpoint Indication Select One (1)	+ to - Blue Red Cool Warm Cooler Warmer 10 to 30C 18 to 28C 55 to 85F
5. Override Options Select One (1)	SS = Short Sensor (Default)* DC = Dry Contact (Separate Input)

Note*: Short Sensor is our default but the Dry Contact option is field selectable with terminals included | Note**: NIST is available in "R" and "R2" only configurations

ACCESSORIES ORDERING

Model # Example: A/MOUNTING PLATE -OR- 106821

Model #	Item #	Description
A/MOUNTING PLATE	106821	Wall Mounting Back Plate, Plastic, Beige
A/MOUNT PLATE WHITE	126386	Wall Mounting Back Plate, Plastic, White
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)

