





## **ROOM**

## **Wall Mount Enclosures, Balco RTD**

The ACI Balco 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 Balco 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 website, www.workaci.com.

Sensor Type   Sensor Curve:	Balco RTD   PTC (Positive Temperature Coefficient)	
Number Temperature Sensing Points:	One	
Sensor Output @ 70°F (21.1°C):	1000 Ohms Nominal	
Sensor Accuracy:	70°F (21.1°C): +/- 1%	
Temperature Coefficient (0-100°C):	4618 ppm/°C	
Sensor Stability:	+/- 0.05% after 1000 Hours @ 150°C (302°F)	
Response Time (63% Step Change):	8 Seconds Nominal	
Maximum Operating Current:	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:	°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	
	Short Set Point available upon request	
Operating Temperature Range:	1.5 to 50°C (35 to 122°F)	
Storage Temperature Range:	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) - 26 AWG (0.129 mm²	
Terminal Block Torque Rating:	0.5 Nm (Minimum); 0.6 Nm (Maximum)	
Enclosure Material   Flammability Rating   Color	r: "-R2" Enclosure: ABS Plastic; UL94-HB, White   "-R" Enclosure: ABS Plastic; UL94-HB, Beig	
Product Dimensions:	See Drawing on back of Product Data Sheet	
Product Weight:	A/BALCO-R/RS/RO Series: 0.14 lbs. (63.5g); A/BALCO-RSO Series: 0.18 lbs. (81.6g)	
	<b>A/BALCO-R2/R2S/R2O Series:</b> 0.16 lbs. (72.6g); <b>A/BALCO-R2SO Series:</b> 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





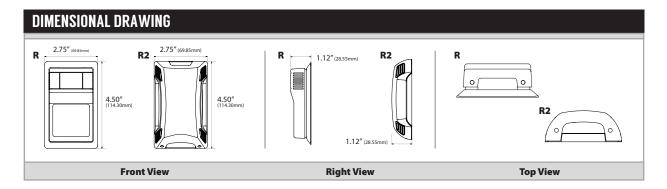




## Automation Components, Inc.

## TEMPERATURE | BALCO RTDS | ROOM





STANDARD ORDERING		Model # Example: A/BALCO-2 -OR- 144159
Model #	Item #	Description
A/BALCO-R	144158	1K Balco RTD, "R" Version, Beige, No Options
A/BALCO-R2	144159	1K Balco RTD, "R2" Version, White, No Options

A. Sensor Series No Selection Required	A/	A/		
B. Model Series Select One (1)	BALCO —			
C. Configuration Select One (1)	R = Room   RO = Room with Override   RS = Room with Set Point RSO = 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 1 Select One (1)	= No LCD Display   <b>LCD</b> 1 = 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** Select One (1)	= No NIST Certificate   <b>NIST</b> = NIST Certificate (Must Specify 1, 3 or 5 Points)			
Setpoint Configuration Options Select	t Options below if RS, RSO, 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)	<b>DA</b> = Direct Acting (Left to Right (Smaller to Larger)) <b>RA</b> = 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 1: LCD Display is not compatible with NIST | 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 BEIGE R -OR 106821
Model #	Item #	Description
A/MOUNTING PLATE BEIGE R	106821	Wall Mounting Back Plate, Plastic, Beige ("R")
A/MOUNTING PLATE WHITE R	143369	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)







