



## STRAP ON **Non-Intrusive Pipe Mount, Balco RTD**

The ACI Balco Strap-On Series features a 1.5" square copper plate with the sensor encapsulated to the back side of the plate to improve the thermal conductivity between the pipe and the sensor when an Immersion style sensor can't be inserted into the pipe in a retrofit application. Each sensor has two, 14 inch 22 AWG Etched Teflon colored lead wires to differentiate the many different sensor types. The sensors in this series are manufactured using ACI's proven double encapsulation process to eliminate the effects of moisture upon the sensors as well as to improve the thermal response times using our high quality, thermally conductive epoxy. The Strap-On Series sensors can be used to monitor pipe sizes from 1 1/4" to 10" in diameter. For best accuracy and increased thermal conduction between the pipe and sensor, ACI recommends to

clean the pipe before applying thermal grease and insulating the sensor from the effects of the ambient air. Optional Weather Proof enclosure and NIST Certificates are available as referenced in the ordering grid on the back of the Product Data Sheet.

Applications: Cold Water Systems, Hot Water Systems, Retrofit applications, Hydronic Heating Systems, Chillers

The ACI Balco Strap-On 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.

PRODUCT SPECIFICATIONS	
Sensor Type   Sensor Curve:	Balco RTD   PTC (Positive Temperature Coefficient)
Number Sensing Points:	One
Number Wires:	Two (Non-Polarity Sensitive)
Sensor Output @ 70°F (21.1°C) (Lead Wire Colors):	1000 Ohms nominal   (Orange/Yellow)
Sensor Accuracy:	<b>70°F (21.1°C):</b> +/- 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
Operating Current (Maximum):	5 mA
Enclosure Specifications (Operating Temperature	A/BALCO-S-GD: Galvanized Steel, -40 to 93°C (-40 to 200°F), NEMA 1 (IP 10)
Range, Flammability, NEMA/IP Rating):	A/BALCO-PB: ABS Plastic, -30 to 85°C (-22 to 185°F), UL94-HB, Plenum Rated
	<b>A/BALCO-S-4X:</b> Polystyrene, -40 to 70°C (-40 to 158°F), UL94-V2, NEMA 4X (IP 66)
Storage Temperature Range:	-40 to 85°C (-40 to 185°F)
Operating Humidity Range:	10 to 95% RH, non-condensing
Acceptable Pipe Size:	<b>A/BALCO-S-XX:</b> 1 1/4" (32mm) to 4" (100mm)   <b>A/BALCO-S10-XX:</b> 2" (50mm) to 10" (250mm)
Foam Material   Flammability Rating:	Neoprene/EPDM/SBR Polymer   UL94-HF1; MIL-R-6130C; FMVSS-302
Lead Length   Conductor Size:	14" (35.6cm)   22 AWG (0.65mm)
Lead Wire Insulation   Wire Rating:	Etched Teflon (PTFE) Colored Leads   MIL-W-16878/4 (Type E)
Conductor Material:	Silver Plated Copper
Product Dimensions (Length x Diameter):	See Drawing on Back of Data Sheet
Product Weight:	<b>A/BALCO-XX-GD:</b> 0.80 lbs. (0.37kg)   <b>A/BALCO-XX-PB:</b> 0.40 lbs. (0.18kg);
	<b>A/BALCO-XX-4X:</b> 0.55 lbs. (0.25kg)
Agency Approvals:	CE, RoHS2, WEEE

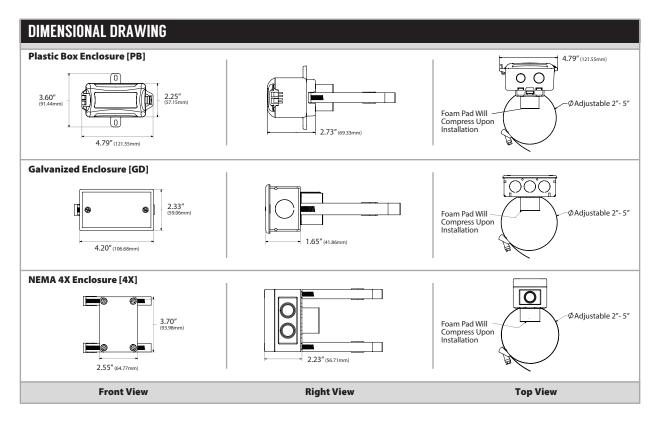






## TEMPERATURE | BALCO RTDS | STRAP ON





STANDARD ORDERING  Model # Example: A/BALCO-S-GD - OR- 1149			
Model #	Item #	Description	
A/BALCO-S-GD	114910	Balco, Strap-On, 1 1⁄4" to 4" Pipe, Galvanized Enclosure, 24" Leads	
A/BALCO-S-PB	124210	Balco, Strap-On, 1 ¼" to 4" Pipe, Plastic Enclosure, 24" Leads	
A/BALCO-S-4X	137376	Balco, Strap-On, 1 1/4" to 4" Pipe, NEMA 4X Plastic Enclosure, 24" Leads	

CUSTOM ORDERING	Model # 3-cample: A/ BALCO S PB NIST A. B. C. D. E.	MODEL#
A. Sensor Series No Selection Required	A/	A/
B. Model Series No Selection Required	BALCO —	BALCO
C. Configuration Select One (1)	<b>S</b> = Strap-On (1.25" to 4" Pipe Size)   <b>S10</b> = Strap-On (2" to 10" pipe size)	
D. Enclosure Select One (1)	GD = Galvanized   PB = Plastic   4X = NEMA 4X Weather Proof	
E. NIST Select One (1)	= No NIST Certificate   <b>NIST</b> = NIST Certificate (3 Points)	

ACCESSORIES ORDERING  Model # Example: A/HOSECLAMP-2-12		
Model #	Item #	Description
A/HOSE CLAMP-2-5"	142630	Hardware, 2-5" Hose Clamp, Quick Release Worm Gear, 201/301 Stainless Steel
A/HOSE CLAMP-2-12"	142631	Hardware, 2-12" Hose Clamp, Quick Release Worm Gear, 201/301 Stainless Steel
NSG HEAT TRANSFER PASTE 20Z	102595	Thermal Grease, 2 oz. Tube, Silicone Free, -40 to 320°F (-40 to 160°C)
NSG HEAT TRANSFER PASTE 160Z	140574	Thermal Grease, 16 oz. Jar, Silicone Free, -40 to 390°F (-40 to 198°C)







