TEMPERATURE | BALCO RTDS | IMMERSION



IMMERSION

Stainless Steel Immersion, Balco RTD

The ACI Balco Immersion Series features a 1/4" diameter stainless steel probe with 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 and to increase the thermal response times using our high quality, thermally conductive epoxy. The immersion sensors come standard with a welded thermowell "-I" version but can also be ordered without the thermowell "-INW" version. The "-INW" Version includes a standard 1/2" NPS (National Pipe Straight) process thread to be used with an optional machined thermowell or in an existing thermowell application. This series can be ordered with optional NEMA rated weather proof enclosures and NIST

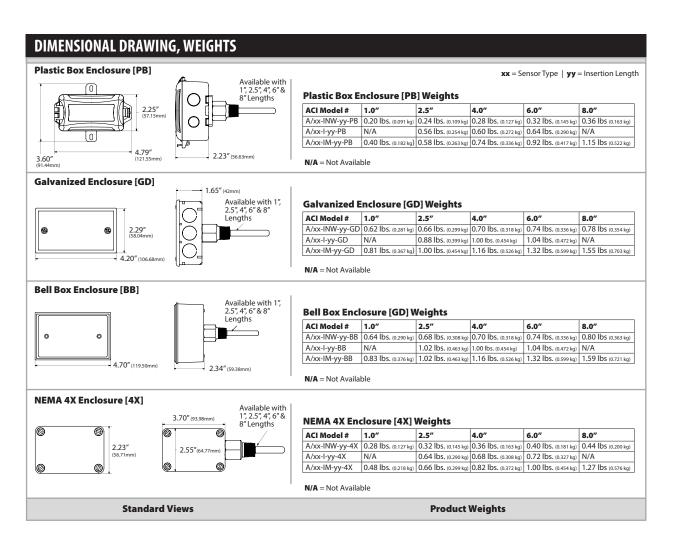
Certificates as referenced on the back of the product data sheet.

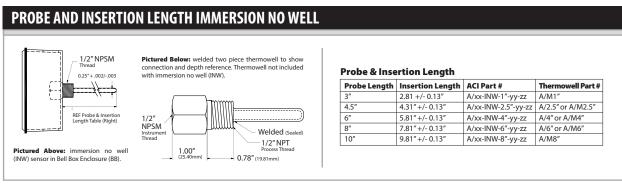
Applications: Chilled Water Systems, Hot Water Systems, Boilers, Pumps, Compressor, Chillers

The ACI Balco Immersion 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.

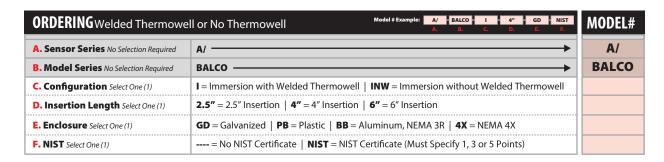
Sensor Type Sensor Curve:		Balco RTD PTC (Positive Temperature Coefficient)
Number Sensing Points:		One
Number Wires:		Two (Non-Polarity Sensitive)
Sensor Output @ 70°F (21°C) Lead Wire Colors:		1000 Ohms nominal (Orange/Yellow)
Sensor Accuracy:		70°F (21°C): +/- 1%
Temperature Coefficient (0-100°C):		4618 ppm/°C
Sensor Stability:		+/- 0.05% after 1000 Hours @ 150°C (302°F)
Response Time (63% Step Change):		8 Seconds nominal
Operating Curre	nt (Maximum)	5 mA
Sensor Operating Temperature Range		-40 to 121°C (-40 to 250°F)
Enclosure Specifications (Temperature,		"-GD" Enclosure: Galvanized Steel, -40 to 121°C (-40 to 250°F), NEMA 1 (IP10)
Flammability, NEMA/IP Ratings):		"-PB" Enclosure: ABS Plastic, -30 to 90°C (-22 to 194°F), UL94-HB
		"-BB" Enclosure: Aluminum, -40 to 121°C (-40 to 250°F), Plenum Rated, NEMA 3R
		"-4X" Enclosure: Polystyrene Plastic, -40 to 70°C (-40 to 158°F), UL94-V2, NEMA 4X (IP 6
Storage Temperature Range:		-40 to 85°C (-40 to 185°F)
Operating Humidity Range:		10 to 95% RH, non-condensing
Probe Diameter	Thermowell Bore Diameter:	0.250" (6.35mm) 0.260"
	Thermowell Material:	304 Stainless Steel 304 Series Stainless Steel
Thermowell Instrument Thread Process Thread:		½" NPS (National Pipe Straight) Thread ½" NPT (National Pipe Tapered) Male Thread
Fitting Material Flammability Rating:		Polyamide 66 (High Performance Nylon 66) UL94-HB
Fitting Thread Size:		½" NPS (National Pipe Straight) Male Thread
Foam Pad Material Flammability Rating:		Neoprene/EPDM/SBR Polymer UL94-HBF; FMVSS-302; MIL-R-6130C
Lead Length Conductor Size:		14" (35.6 cm) 22 AWG (0.65mm)
Lead Wire Insulation Wire Rating:		Etched Teflon (PTFE) Colored Leads Mil Spec 16878/4 Type E)
Conductor Material:		Silver Plated Copper
Product Dimensions Product Weight:		See table on back of Product Data sheet
Agency Approvals:		

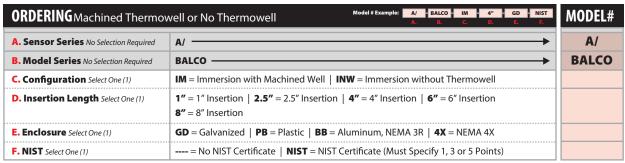
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Note: Thermowells with lengths of 12", 18", and 24" are available and must be ordered separately | See the Machined Thermowells Data Sheet (Accessories)

ACCESSORIES ORDERING Model # Example: NSG HEAT TRANSFER PASTE 202 -OR- 100		
Model #	Item #	Description
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)
A/2.5"	128349	2.5" (63.5mm) Insertion, 304 Stainless, Welded, 1/2" NPT Thermowell
A/4"	128350	4" (101.6mm) Insertion, 304 Stainless, Welded, ½" NPT Thermowell
A/6"	128351	6" (152.4mm) Insertion, 304 Stainless, Welded, ½"NPT Thermowell
A/M1"	128337	1" (25.4mm) Insertion, 304 Stainless, Machined, ½" NPT Thermowell
A/M2.5"	128338	2.5" (63.5mm) Insertion, 304 Stainless, Machined, 1/2" NPT Thermowell
A/M4"	128343	4" (101.6mm) Insertion, 304 Stainless, Machined, ½" NPT Thermowell
A/M6"	128344	6" (152.4mm) Insertion, 304 Stainless, Machined, ½"NPT Thermowell
A/M8"	138725	8" (203.2mm) Insertion, 304 Stainless, Machined, ½" NPT Thermowell
A/M2.5"-316SS	128352	2.5" (63.5mm) Insertion, 316 Stainless, Machined, 1/2" NPT Thermowell
A/M4"-316SS	128353	4" (101.6mm) Insertion, 316 Stainless, Machined, ½" NPT Thermowell
A/M6"-316SS	128354	6" (152.4mm) Insertion, 316 Stainless, Machined, ½" NPT Thermowell