



PROBE ONLY

Stainless Steel Probe, Balco RTD



The ACI Balco Probe Only Series features a 1/4" diameter stainless steel probe with two, 14" or 24 inch 22 AWG Etched Teflon colored lead wires to differentiate the different sensor types. The sensors in this series are manufactured using ACI's proven double encapsulation process to eliminate the effects of moisture on the sensors and to increase the thermal response time using our high quality, thermally conductive epoxy. The probe is designed to be used in either duct and immersion applications when used with the proper length thermowell. Optional NIST Certificates are available as referenced in the ordering grid on the Product Data Sheet.

Applications: Roof Top Units, Air Handlers, Supply/Discharge Air/Return/Mixed/Exhaust Air Duct Temperature Sensing, Immersion Temperature Sensors, Replacement Temperature Sensors

The ACI Balco RTD Probe Only 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, workaci.com.

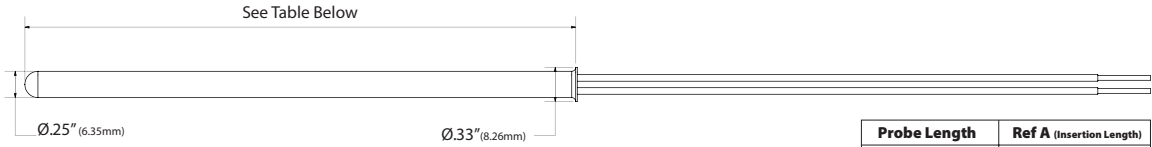
PRODUCT SPECIFICATIONS

Sensor Type Sensor Curve:		Balco RTD PTC (Positive Temperature Coefficient)
Number Sensing Points:		One
Number Wires:		Two (Non-Polarity Sensitive)
Sensor Output @ 25°C (77°F) (Standard Lead Wire Colors):		1000 Ohms nominal (Orange/Yellow)
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:		5mA
Operating Temperature Range:		-40 to 121°C (-40 to 250°F)
Storage Temperature Range:		-40 to 85°C (-40 to 185°F)
Operating Humidity Range:		10 to 95% RH, non-condensing
Probe Material:		304 Stainless Steel
Standard Wire	Lead Wire Insulation Wire Rating:	Etched Teflon (PTFE) Colored Leads MIL-W-16878/4 (Type E)
	Temperature Rating:	-55°C (-67°F) to 200°C (392°F)
	Conductor Material:	Silver Plated Copper
	Rated Application:	Suitable for Indoor and Outdoor (wet) location. Oil, Moisture, Acids, Oils and Moisture Resistant
Lead Length Conductor Size:		4", 6" and 8" Probes: 14" (35.6 cm) 12" and 18" Probes: 24" (61cm) 22 AWG (0.65mm)
Plenum Wire	Lead Wire Insulation Wire Rating:	CL2P: FEP (Fluorinated Ethylene Propylene) TYPE CL2P - TYPE CMP 22 AWG (UL), C(UL) FEP/FEP E1 30356 ROHS
	Temperature Rating:	CL2P: -80°C (-112°F) to 150°C (302°F)
	Conductor Material:	CL2P: Tinned Copper
	Rated Application:	CL2P: Suitable for Indoor and Outdoor (wet) locations. Oil, Gas, Sunlight, Abrasion Acid Resistant
Product Dimensions Probe Diameter:		See table on back of product data sheet 0.250" (6.35mm)
Product Weight:		4" = 0.028 lbs. (12.7g) 6" = 0.036 lbs. (16.3g) 8" = 0.044 lbs. (20g) 12" = 0.066 lbs. (29.9g) 18" = 0.09 lbs. (40.8g)
Agency Approvals:		CE, RoHS2, WEEE





DIMENSIONAL DRAWING



Probe Length	Ref A (Insertion Length)
4"	4.00" ± 0.13"
6"	6.00 ± 0.13"
8"	8.00" ± 0.13"
12"	12.00" ± 0.25"
18"	18.00" ± 0.25"

Standard View

CUSTOM ORDERING

Model # Example: **A/** **BALCO** **PO** **4"** **6'CL2P** **NIST**

MODEL #

A. Sensor Series¹ No Selection Required	A/ _____ ▶	A/
B. Model Series No Selection Required	BALCO _____ ▶	BALCO
C. Configuration No Selection Required	PO = Probe Only _____ ▶	PO
D. Probe Length Select One (1)	4" = 4" Probe 6" = 6" Probe 8" = 8" Probe 12" = 12" Probe 18" = 18" Probe	
E. Lead Wire Options Select One (1)	---- = Standard 14 or 24" Etched PTFE Colored Leads 6'CL2P = 6 ft (1.83m), 2 Conductor Plenum Rated Cable 10'CL2P = 10 ft (3.05m), 2 Conductor Plenum Rated Cable 20'CL2P = 20 ft (6.10m), 2 Conductor Plenum Rated Cable	
F. NIST Select One (1)	---- = No NIST Certificate NIST = NIST Certificate (3 Points)	

ACCESSORIES ORDERING

Model # Example: **NSG HEAT TRANSFER PASTE 2OZ** -OR- **102595**

Model #	Item #	Description
NSG HEAT TRANSFER PASTE 2OZ	102595	Thermal Grease, 2 oz. Tube, Silicone Free, -40 to 320°F (-40 to 160°C)
NSG HEAT TRANSFER PASTE 16OZ	140574	Thermal Grease, 16 oz. Jar, Silicone Free, -40 to 390°F (-40 to 198°C)

