



Product Data

A/Balco Series

1000 Ohm Balco
Temperature Sensor

Product Description

The A/Balco Series temperature sensors incorporate a thin film RTD sensor, which provides a predictable output over the specified temperature range of -40 to 240°F. These sensors are available in a two-wire configuration incorporating high accuracy and interchangeability throughout a wide operating temperature range.

These units are offered in Room, Room with Set Point, Room with Override, Room with Setpoint and Override, and Room with Setpoint, Override, and RJ11 Jack, Stainless Steel Duct and Duct without Box, Immersion, Stainless Plate, Raw, Strap-On, Bullet Probe, Button Sensor and Outdoor Air Configurations.

All ACI Room sensors may be ordered with an optional setpoint (see chart on the following page), override, or with a 4 pin RJ11 or 6 pin RJ12 communication jack with terminal blocks for remote programming.

The A/Balco Series is covered by ACI's Five (5) Year Limited Warranty, which is located in the front of ACI'S SENSORS & TRANSMITTERS CATALOG or can be found on ACI's web site, which is: www.workaci.com.

Product Specifications

Sensor Output	1000 Ohms @ 70°F (21°C)
Temp. Coefficient	2.2 Ohms/deg F
Temp. Operating Range	-40 to 240°F (-40 to 116°C)
Accuracy	+/- 0.1%
For sensors with Display option, see the LCD Series cut sheet	

RTD



Attributes

- Specialized Temp. Sensor
- Double Potting Process avoids moisture issues
- Non-polarity sensitive

Applications

- OEM/Industrial
- Light Industrial
- DDC Systems



Made in the USA

Automation Components, Inc.

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Wiring Diagrams available at www.workaci.com

TEMPERATURE

RELATIVE HUMIDITY

PRESSURE

CURRENT

GAS SENSORS

ACCESSORIES

INTERFACE DEVICES

Ordering Information

A/Balco (choose configuration below)

-Configuration	-Length	-Enclosure Type	-Optional Plenum Wire
D (Duct)	4", 8", 12", 18"	PB, GD, BB, 4X, EH	
DO (Duct without Box)	4", 8", 12", 18"	-----	6'CL2P, 10'CL2P, 20'CL2P
I (Immersion w/ well)	2.5", 4", 6"	PB*, GD, BB, 4X, EH	
INW (Immersion no well)	2.5", 4", 6"	PB*, GD, BB, 4X, EH	
A (Copper Averaging)	8', 12', 24'	PB, GD, BB, 4X, EH	
FA (Flex. Cable Averaging)	8', 12', 24'	PB, GD, BB, 4X, EH	
RA (Rigid Averaging)	18", 24", 36"	PB, GD, BB, 4X, EH	
S (Strap)	-----	PB*, GD, 4X	
O (Outdoor Air)	-----	EH, BB, 4X	

SP (Stainless Plate)
W (Raw Potted Sensor)
W-6' (Raw w/ 6' Leads)
BP (Bullet Probe)
BP-20'Z (BP w/20' of Zip Wire)
BBS (Brass Button Sensor)
SBS (Stainless Button Sensor)
PBS (Plastic Button Sensor)

Enclosure Key

PB = Plastic Box
GD = Galvanized Box
BB = NEMA 3R
4X = NEMA 4X
EH = Euro Housing (Weather tight)

*Please note that the -PB (Plastic Box) is rated to 140° F and may not be suitable for high temperature applications.

Example: A/Balco-D-4"-PB

Room configurations:

Configuration	Communication Jack	Pot Value*	Setpoint Indicator*	Pot Action*
R2 (Room)	RJ4 (4 Pin RJ11)	400 5K	Cool Warm	DA (Direct)
R2S* (Room w/ Setpoint)	RJ6 (6 Pin RJ12)	1K 8.5K	55 to 85	RA (Reverse)
R2O (Room w/ Override)	RS232 (Stereo Jack)	2K 10K	10 to 30°C	
R2SO* (Room w/ Setpoint & Override)		3K 20K		
		100K		

Room Sensors with* require setpoint specs (value, indication, and action) and are not listed on your packing slip or invoice.

R2= New Aries Enclosure OR R= Previous Infinity Enclosure (Please contact ACI for display options)

Example: A/BALCO-R2SO- 10K- Cool/Warm-DA or A/BALCO-R

