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

Wiring Diagrams available at www.workaci.com

RTD



Attributes

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

Applications

- **OEM/Industrial**
- **Light Industrial**
- **DDC Systems**



Automation Components, Inc.
2305 Pleasant View Rd.
Middleton, WI 53562
PH: (608) 831-2585
FAX: (608) 831-7407

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/Baclco-D-4"-PB

Room configurations:

Configuration -[ ]
- **R -** Room
- **RS* -** Room w/ Setpoint
- **RO -** Room w/ Override
- **RSO* -** Room w/ Setpoint & Override

Communication Jack -[ ]
- **RJ4** (4 Pin RJ11)
- **RJ6** (6 Pin RJ12)
- **RS232** (Stereo Jack)

Pot Value* -[ ]
400 5K
1K 8.5K
2K 10K
3K 20K
100K

Setpoint Indicator* -[ ]
Cool | Warm
55 to 85
10 to 30 °C

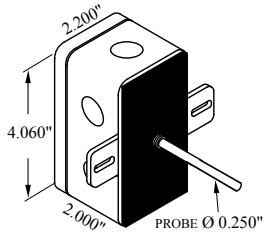
Pot Action* -[ ]
DA (Direct)
RA (Reverse)

Display -[ ]
( ) No Display (Standard)
(DF) LCD Display (Degrees F)
(DC) LCD Display (Degrees C)

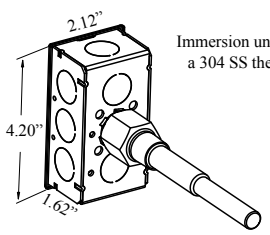
Room Sensors with* require setpoint specs (value, indication, and action) and are not listed on your packing slip or invoice.

Example: A/Balco-RSO- 10K- Cool/Warm-DA

Standard enclosure defaults:

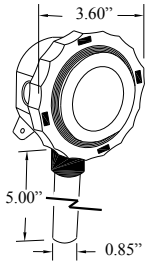


Duct
(Plastic Box)

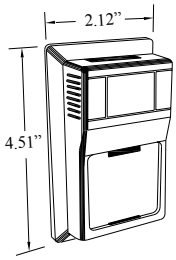


Immersion units include a 304 SS thermowell

Immersion
(Galvanized Box)



Outdoor Air
(Euro Enclosure)



Room

2305 Pleasant View Road Middleton, WI 53562
PH: (888) 967-5224 www.workaci.com