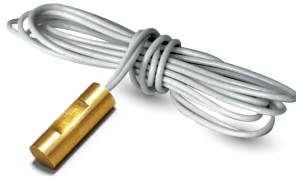




# PIPE MOUNT

## Small Pipe/Coil Sensor, Balco RTD



The ACI Balco Pipe Mount Series features a 1.1" long Brass sensing enclosure with slight curvature on the bottom that is designed to increase the surface area and improve thermal conductivity between the pipe and sensor. Each sensor has two, 24 inch 22 AWG Etched Teflon colored lead wires to differentiate 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 improve the thermal response times using our high quality, thermally conductive epoxy. The Pipe Mount sensor should be used on pipe or coil sizes from 1/2" to 1" in diameter and condensing environments. A 7.5" nylon wire tie is supplied for fastening the sensor to the top of the pipe. For best accuracy and increased thermal conduction

between the pipe and the sensor, we recommend cleaning the pipe and to use thermal grease between the mating surfaces and then to insulate the sensor from the effects of the ambient air. An optional plenum rated cable and NIST Certificates can be ordered as referenced in the ordering grid.

**Applications:** Cooling Coils, Heating Coils, Hot Water Systems, Chilled Water Systems, Hydronic Heating Systems, Chillers

**The ACI Balco Pipe Mount 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](http://www.workaci.com).**

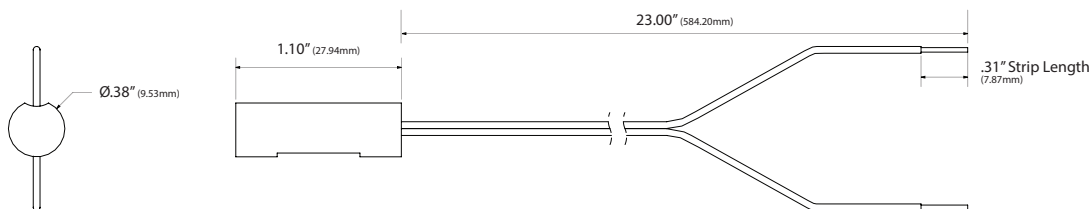
### PRODUCT SPECIFICATIONS

|                                                          |                                                             |
|----------------------------------------------------------|-------------------------------------------------------------|
| <b>Sensor Type   Sensor Curve:</b>                       | Balco RTD   PTC (Positive Temperature Coefficient)          |
| <b>Number Sensing Points:</b>                            | One                                                         |
| <b>Number Wires:</b>                                     | Two (Non-Polarity Sensitive)                                |
| <b>Sensor Output @ 70°F (21.1°C)   Lead Wire Colors:</b> | 1000 Ohms nominal   Orange/Yellow                           |
| <b>Sensor Accuracy:</b>                                  | <b>70°F (21.1°C):</b> +/- 1%                                |
| <b>Temperature Coefficient (0-100°C):</b>                | 4618 ppm/°C                                                 |
| <b>Sensor Stability:</b>                                 | +/- 0.05% after 1000 Hours @ 150°C (302°F)                  |
| <b>Response Time (63% Step Change):</b>                  | 15 Seconds nominal                                          |
| <b>Maximum Operating Current:</b>                        | 5 mA                                                        |
| <b>Pipe Mount Sensor Enclosure Material:</b>             | Brass                                                       |
| <b>Pipe Sizes Accepted:</b>                              | ½" (12.7mm) to 1" (25.4mm)                                  |
| <b>Operating Temperature Range:</b>                      | -40 to 121°C (-40 to 250°F)                                 |
| <b>Storage Temperature Range:</b>                        | -40 to 85°C (-40 to 185°F)                                  |
| <b>Operating Humidity Range:</b>                         | 10 to 95% RH condensing                                     |
| <b>Lead Length   Conductor Size:</b>                     | 24" (61cm)   22 AWG (0.65mm)                                |
| <b>Lead Wire Insulation   Wire Rating:</b>               | Etched Teflon (PTFE) Colored Leads   MIL-W-16878/4 (Type E) |
| <b>Conductor Material:</b>                               | Silver Plated Copper                                        |
| <b>Product Dimensions (Length x Diameter):</b>           | 1.10" (27.9mm) x 0.375" (9.53mm)                            |
| <b>Product Weight:</b>                                   | 0.05 lbs. (22.68g)                                          |
| <b>Agency Approvals:</b>                                 | CE, RoHS2, WEEE                                             |





DIMENSIONAL DRAWING



Standard View

STANDARD ORDERING

Model # Example: A/BALCO-PM -OR- 138661

| Model #    | Item # | Description                  |
|------------|--------|------------------------------|
| A/BALCO-PM | 138661 | Balco, Pipe Mount, 24" Leads |

OPTIONAL SENSOR ORDERING

Model # Example: A/ BALCO PM 20' NIST

|                                                      |                                                                                                     |       |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------|
| <b>A. Sensor Series</b> <i>No Selection Required</i> | A/ <div></div>                                                                                      | A/    |
| <b>B. Model Series</b> <i>No Selection Required</i>  | BALCO <div></div>                                                                                   | BALCO |
| <b>C. Configuration</b> <i>No Selection Required</i> | PM = 1.1" Brass Pipe Mount Sensor <div></div>                                                       | PM    |
| <b>D. Lead Length</b> <i>Select One (1)</i>          | ---- = Standard (24" Etched Teflon)   <b>10'</b> = 10 Feet (3.05m)   <b>20'</b> = 20 Feet** (6.10m) |       |
| <b>E. Lead Wire Type</b> <i>Select One (1)</i>       | ---- = Standard (24" Teflon Colored Leads)   <b>CL2P</b> = Plenum Rated Cable                       |       |
| <b>F. NIST</b> <i>Select One (1)</i>                 | ---- = No NIST Certificate   <b>NIST</b> = NIST Certificate (3 Points)                              |       |

Note\*: The 20' Length is not CE Compliant but it is RoHS Compliant

ACCESSORIES ORDERING

Model # Example: HARDWARE, 2" HOSE CLAMP -OR- 100235

| Model #                      | Item # | Description                                                               |
|------------------------------|--------|---------------------------------------------------------------------------|
| HARDWARE, 2" HOSE CLAMP      | 100235 | Hardware, 2" Hose Clamp, Quick Release Worm Gear, 201/301 Stainless Steel |
| 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)    |

