# WALL PLATES

## Stainless & Aluminum Wall Plate, Balco RTD

The ACI Balco Wall Plate Series features a decorative, single gang brushed Stainless Steel or Smooth Satin Finished Anodized Aluminum wall plate with two, 14 inch 22 AWG Etched Teflon colored lead wires to differentiate between the 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. A foam pad is included to insulate the sensor from thermal drafts within the wall, since the plates are designed to be mounted over a standard single gang junction box or directly over a hole in the wall with the use of drywall anchors. These plates are designed to provide a level of protection and security when monitoring the ambient air temperatures in a space. Tamper Proof mounting screws, tamper proof screw driver bits and NIST Certificates are available as referenced on the back of the product data sheet.

Stainless Steel

Aluminum

**Applications:** Space Temperature Sensing, Decorative Wall Plate Applications, Tamper Proof Applications, Schools, Gymnasiums

**The ACI Balco Wall Plate 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.**
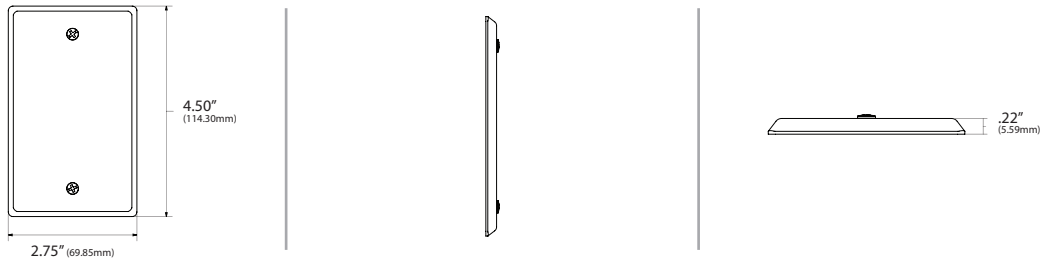
## PRODUCT SPECIFICATIONS

| | |
|---|---|
| **Sensor Type | Sensor Curve:** | Balco RTD | PTC (Positive Temperature Coefficient) |
| **Number Sensing Points:** | One |
| **Number Wires:** | Two (Non-Polarity Sensitive) |
| **Sensor Output @ 70ºF (21.1ºC) | Lead Wire Colors:** | 1000 Ohms nominal | Orange/Red |
| **Sensor Accuracy:** | **70ºF (21.1ºC):** +/- 1% |
| **Temperature Coefficient (0-100ºC):** | 4618 ppm/ºC |
| **Sensor Stability:** | +/- 0.05% after 1000 Hours @ 150ºC (302ºF) |
| **Response Time (63% Step Change):** | 25 Seconds nominal |
| **Operating Current (Maximum)** | 5 mA |
| **Plate Material:** | **A/BALCO-SP Series:** 430 Stainless Steel (Brushed Stainless Steel Finish) |
| | **A/BALCO-AP Series:** Aluminum (Smooth Satin Finish, Clear Anodized) |
| **Foam Material | Flammability Rating:** | Cross-Linked Polyethylene | FMVSS-302 |
| **Operating | Storage Temperature Range:** | -40 to 71ºC (-40 to 160ºF) |
| **Operating Humidity Range:** | 10 to 95% RH, non-condensing |
| **Lead Length | Conductor Size:** | 14" (35.56cm) | 22 AWG (0.65mm) |
| **Lead Wire Insulation | Wire Rating:** | Etched Teflon (PTFE) Colored Leads | MIL-W-16878/4 (Type E) |
| **Conductor Material:** | Silver Plated Copper |
| **Product Dimensions (L x W x D):** | 4.50" (114.3mm) x 2.78" (70.6mm) x 0.187" (4.76mm) |
| **Product Weight:** | **A/BALCO-SP Series:** 0.14 lbs. (63.5g) | **A/BALCO-AP Series:** 0.08 lbs. (36.29g) |
| **Agency Approvals:** | CE, RoHS2, WEEE |

## DIMENSIONAL DRAWING

4.50"
(114.30mm)

2.75" (69.85mm)

.22"
(5.59mm)

| Front View | Right View | Top View |

## STANDARD ORDERING

Model # Example: **A/BALCO-SP** -OR- **121894**

| Model # | Item # | Description |
|---------|--------|-------------|
| **A/BALCO-SP** | 121894 | Balco Stainless Wall Plate, 14" Leads, 1/8" Foam Pad |
| **A/BALCO-AP** | 142711 | Balco Aluminum Wall Plate, 14" Leads, 1/8" Foam Pad |

## CUSTOM ORDERING

Model # Example: **A/** **BALCO** **SP** **NIST**
A.   B.   C.   D.

| | | MODEL # |
|---|---|---|
| **A. Sensor Series** *No Selection Required* | A/ ⟶ | **A/** |
| **B. Model Series** *No Selection Required* | BALCO ⟶ | **BALCO** |
| **C. Configuration** *Select One (1)* | **SP** = 1 Gang Stainless Steel Wall Plate \| **AP** = 1 Gang Aluminum Wall Plate | |
| **D. NIST** *Select One (1)* | **----** = No NIST Certificate \| **NIST** = NIST Certificate (3 Points) | |

## ACCESSORIES ORDERING

Model # Example: **A/TAMPER PROOF SCREWS** -OR- **144865**

| Model # | Item # | Description |
|---------|--------|-------------|
| **A/TAMPER PROOF SCREWS** | 144865 | Two (2) Screws, Tamper Proof, #6 x 5/8", Zinc Plated, Flat Head, 1/8" |
| **SCREWDRIVER INSERT BIT** | 143067 | Screwdriver Bit, Tamper Proof Screw, 5/64 |

RoHS COMPLIANT 2002/95/EC   CE