# WALL PLATES

## Stainless & Aluminum Wall Plate, Thermistor

The ACI Thermistor 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 the different NTC 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 they 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 to monitor ambient air temperatures in a space. Tamper Proof mounting screws are available upon request.

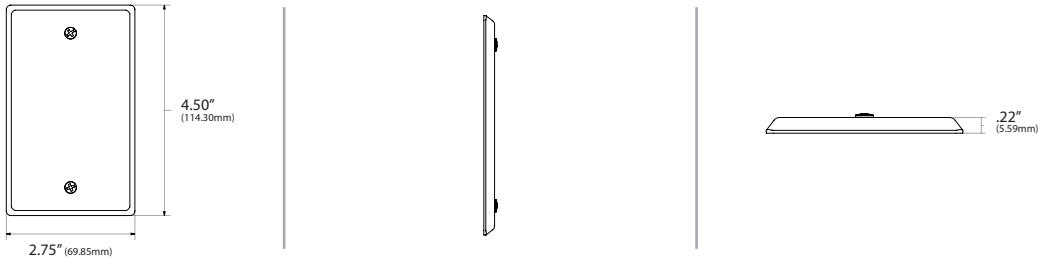
**Applications:** Space Temperature Sensing, Decorative Wall Plate Applications, Tamper Proof Applications, Schools, Gymnasiums

**The ACI Thermistor 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**

## PRODUCT SPECIFICATIONS

| | | |
|---|---|---|
| **Sensor Type \| Sensor Curve:** | Thermistor \| Non-Linear, NTC (Negative Temperature Coefficient) | |
| **Number Sensing Points:** | One | |
| **Number Wires:** | Two (Non-Polarity Sensitive) | |
| **Sensor Series Outputs @ 25°C (77°F) \| (Lead Wire Colors):** | **A/1.8K:** 1.8KΩ nominal \| (Red/Yellow) | **A/10KS:** 10KΩ nominal \| (White/Blue) |
| | **A/3K:** 3KΩ nominal \| (White/Brown) | **A/10K-E1:** 10KΩ nominal \| (Orange/Gray) |
| | **A/AN (Type III):** 10KΩ nominal \| (White/White) | **A/20K:** 20KΩ nominal \| (Brown/Blue) |
| | **A/AN-BC:** 5.238KΩ nominal \| (White/Yellow) | **A/50K:** 50KΩ nominal \| (Brown/Yellow) |
| | **A/CP (Type II):** 10KΩ nominal \| (White/Green) | **A/100KS:** 100KΩ nominal \| (Black/Yellow) |
| | **A/CSI:** 10KΩ nominal \| (Green/Yellow) | |
| **Accuracy 0-70°C (32-158°F):** | +/-0.2°C (+/-0.36°F) except **A/10K-E1 Series:** +/- 0.3°C (+/-0.54°F) | |
| | **A/1.8K Series:** +/- 0.5°C @ 25°C (77°F) and (+/-1.0°C) (+/-1.8°F) | |
| **Stability:** | Sensor Dependent; Contact ACI for more information on sensor in question | |
| **Response Time (63% Step Change):** | 15 Seconds nominal | |
| **Power Dissipation Constant:** | 3 mW/°C except **A/1.8K Series:** 1 mW/°C \| **A/10K-E1 Series:** 2 mW/°C | |
| **Plate Material:** | **A/XX-SP Series:** 430 Stainless Steel (Brushed Stainless Steel Finish) | |
| | **A/XX-AP Series:** Aluminum (Smooth Satin Finish, Clear Anodized) | |
| **Foam Material \| Flammability Rating:** | Cross-Linked Polyethylene \| FMVSS-302 | |
| **Operating \| Storage Temperature Range:** | -40 to 71°C (-40 to160°F) \| -40 to 71°C (-40 to 160°F) | |
| **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/XX-SP Series:** 0.14 lbs. (63.5g) \| **A/XX-AP Series:** 0.08 lbs. (36.29g) | |
| **Agency Approvals:** | CE, RoHS, WEEE, UKCA | |

## DIMENSIONAL DRAWING




**Front View** | **Right View** | **Top View**

## STANDARD ORDERING

Model # Example: A/1.8K-SP -OR- 125491

| Model # | Item # | Description |
|---|---|---|
| **A/1.8K-SP** | 125491 | 1.8K Stainless Wall Plate, 14" Leads, 1/8" Foam Pad |
| **A/1.8K-AP** | 124244 | 1.8K Aluminum Wall Plate, 14" Leads, 1/8" Foam Pad |
| **A/3K-SP** | 121084 | 3K Stainless Wall Plate, 14" Leads, 1/8" Foam Pad |
| **A/3K-AP** | 132346 | 3K Aluminum Wall Plate, 14" Leads, 1/8" Foam Pad |
| **A/AN-SP** | 121727 | AN (Type III) Stainless Wall Plate, 14" Leads, 1/8" Foam Pad |
| **A/AN-AP** | 121330 | AN (Type III) Aluminum Wall Plate, 14" Leads, 1/8" Foam Pad |
| **A/AN-BC-SP** | 121732 | AN-BC Stainless Wall Plate, 14" Leads, 1/8" Foam Pad, 11K Shunt |
| **A/AN-BC-AP** | 132310 | AN-BC Aluminum Wall Plate, 14" Leads, 1/8" Foam Pad, 11K Shunt |
| **A/CP-SP** | 122251 | CP (Type II) Stainless Wall Plate, 14" Leads, 1/8" Foam Pad |
| **A/CP-AP** | 121937 | CP (Type II) Aluminum Wall Plate, 14" Leads, 1/8" Foam Pad |
| **A/CSI-SP** | 122412 | CSI Stainless Wall Plate, 14" Leads, 1/8" Foam Pad |
| **A/CSI-AP** | 142419 | CSI Aluminum Wall Plate, 14" Leads, 1/8" Foam Pad |
| **A/10KS-SP** | 120230 | 10KS Stainless Wall Plate, 14" Leads, 1/8" Foam Pad |
| **A/10KS-AP** | 142416 | 10KS Aluminum Wall Plate, 14" Leads, 1/8" Foam Pad |
| **A/10K-E1-SP** | 142028 | 10K-E1 Stainless Wall Plate, 14" Leads, 1/8" Foam Pad |
| **A/10K-E1-AP** | 142418 | 10K-E1 Aluminum Wall Plate, 14" Leads, 1/8" Foam Pad |
| **A/20K-SP** | 120697 | 20K Stainless Wall Plate, 14" Leads, 1/8" Foam Pad |
| **A/20K-AP** | 125531 | 20K Aluminum Wall Plate, 14" Leads, 1/8" Foam Pad |
| **A/100KS-SP** | 120139 | 100KS Stainless Wall Plate, 14" Leads, 1/8" Foam Pad |
| **A/100KS-AP** | 142417 | 100KS Aluminum Wall Plate, 14" Leads, 1/8" Foam Pad |

## CUSTOM ORDERING

Model # Example: A/ (A.) | 1.8K (B.) | SP (C.) | OR (D.) | NIST (E.)

| | | MODEL # |
|---|---|---|
| **A. Sensor Series** *No Selection Required* | **A/** → | **A/** |
| **B. Model Series** *Select One (1)* | **1.8K** \| **3K** \| **AN** \| **AN-BC** \| **CP** \| **CSI** \| **10KS** \| **10K-E1** \| **20K** \| **50K** \| **100KS** | |
| **C. Configuration** *Select One (1)* | **SP** = 1 Gang Stainless Steel Wall Plate \| **AP** = 1 Gang Aluminum Wall Plate | |
| **D. Override Options** *Select One (1)* | **----** = No Override \| **OR** = Override Short Sensor | |
| **E. 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, #6-32 x 5/8", Zinc Plated, Flat Head, 1/8" |
| **SCREWDRIVER INSERT BIT** | 143067 | Screwdriver Insert Bit, Tamper-Resistant 1/8" Hex Bit with 1/4" Hex Shank |