SUN SHIELD
Weather Proof, Thermistor / RTD

The ACI Sun Shield is a reliable solution for protecting the temperature sensors when mounted in a location where an overhang or shade is unavailable. It consists of nine (9) molded, white plastic plates which are used to reduce the thermal effect of the sun and increasing the air flow between the plates. The Sun Shield also provides an added level of protection for the sensors from rain and snow. The Sun Shield is available with any of our standard Balco, Nickel, or Platinum RTDs as well as any of our standard thermistors.

Applications: Outdoor Temperature Monitoring

The ACI Thermistors & RTDs Sun Shield 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.
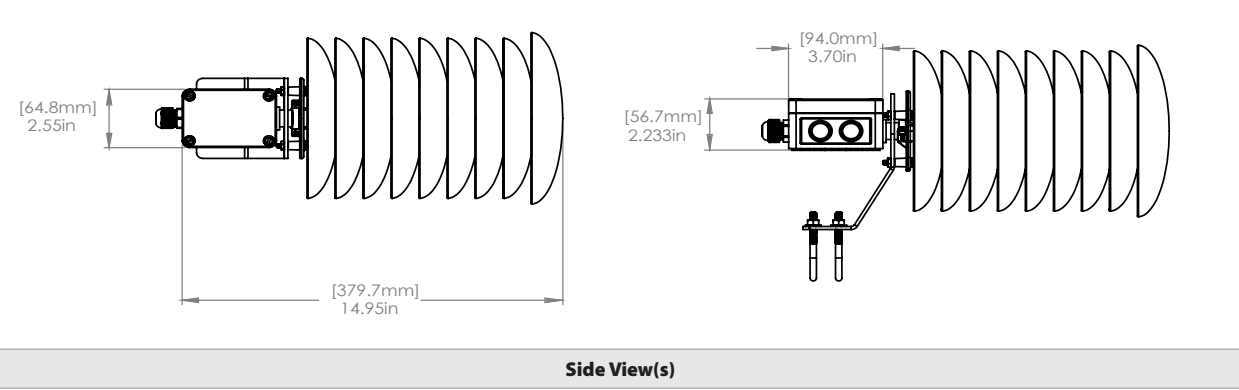
PRODUCT SPECIFICATIONS

Nominal Thermistor Resistive Output @ 77°F (25°C) (Lead Wire Colors) Non-Linear NTC (Negative Temperature Coefficient):	**1.8K Series:** 1.8KΩ (Red/Yellow) **3K Series:** 3KΩ (White/Brown) **AN Series (Type III):** 10KΩ (White/White) **AN-BC Series:** 5.238KΩ (White/Yellow) **CP Series (Type II):** 10KΩ (White/Green)	**CSI Series:** 10KΩ (Green/Yellow) **10KS Series:** 10KΩ (White/Blue) **10K-E1 Series:** 10KΩ (Gray/Orange) **20K Series:** 20KΩ (Brown/Blue) **100KS Series:** 100KΩ (Black/Yellow)
Thermistor Accuracy 32-158°F (0-70°C):	+/- 0.36°F (0.2°C) except 10K-E1 Series: +/- 0.54°F (0.3°C) 1.8K Series: +/- 0.9°F (0.5°C) @ 77°F (25°C) & +/- 1.8°F (1.0°C) from 32 to 158°F (0 to 70°C)	
Thermistor Power Dissipation Constant:	3 mW/°C except 1.8K Series: 1 mW/°C; 10K-E1 Series: 2 mW/°C	
Thermistor Sensor Response Time (T63):	10 Seconds nominal	
Lead Wire Length | Conductor Size:	14" (35.6 cm) | 22 AWG (0.65 mm)	
Insulation | Rating:	Etched Teflon (PTFE) Colored Leads | Mil Spec 16878/4 Type E	
Platinum RTD (PTC) | Number Wires (Wire Colors):	**100-2W Series:** (Brown/Brown) & RHx-2W-1K Series: (Black/Black) **100-3W Series:** (Brown/Brown/Black) & RHx-3W-1K Series: (Black/Black/White)	
Platinum RTD Output @ 32°F (0°C):	**100-xW-O-SUN Series:** 100 Ohms nominal **1K-xW-O-SUN Series:** 1000 Ohms nominal (x = # of wires)	
Platinum RTD Tolerance Class:	+/-0.06% Class A | **Tolerance Formula:** +/-°C = (0.15°C + (0.002 * |t|)	
Platinum RTD Din Standard:	DIN EN 60751 (IEC 751)	
Temperature Coefficient:	3850 ppm/ °C	
Platinum RTD Stability:	+/-0.03% after 1000 Hours @ 572°F (300°C)	
Nickel RTD (PTC) Output @ 70°F (21.1°C) (Wire Colors):	**1K-NI-O-SUN Series:** 1000 Ohms nominal (1K-Nickel RTD) | Red/Red	
Nickel RTD Sensor Accuracy:	32°F (0°C): +/-0.72°F (0.4°F); 70°F (21.1°C): +/-0.34°F (0.17°C); 130°F (54.4°C): +/-1.00°F (0.56°C)	
Nickel Din Standard:	Din 43760	
Temperature Coefficient (0-100°C):	6370 ppm/°C	
Nickel RTD Stability:	+/-0.05% after 1000 Hours @ 302°F (150°C)	
Balco RTD Output @ 70°F (21.1°C) (Wire Colors):	**BALCO-O-SUN Series:** 1000 Ohms nominal (Balco RTD) | Orange/Yellow	
Balco RTD Sensor Accuracy 70°F (21.1°C):	+/- 1.0%	
Balco RTD Temperature Coefficient (0-100°C):	4618 ppm/°C	
Balco RTD Stability:	+/-0.05% after 1000 Hours @ 302°F (150°C)	
Temperature Sensor Response Time (T63):	10 Seconds nominal	
Enclosure Specifications (Material, Flammability, Temperature, NEMA/IP Rating):	Polystyrene Plastic; UL94-V2; -40 to 158°F (-40 to 70°C); NEMA 4X (IP 66)	
Probe Material | Probe Dimensions (Length x Diameter):	304 Stainless Steel | 6.00" (152.4 mm) x 0.25" (6.35mm)	
Product Dimensions (L x W x D):	14.95" (379.7 mm) x 7.50" (190.50 mm)	
Product Weight:	4.16 lbs(1.89 kg)	
Agency Approvals:	CE, RoHS2, WEEE	

DIMENSIONAL DRAWING

[64.8mm]
2.55in

[379.7mm]
14.95in

[94.0mm]
3.70in

[56.7mm]
2.233in

Side View(s)

CUSTOM ORDERING

Model # Example: A/ | AN-BC | O-SUN | NIST
A.   B.   C.   D.

Section	Details	MODEL #
A. Sensor Series *No Selection Required*	**A/** ➝	**A/**
B. Model Series *Select One (1)*	**100-2W** | **100-3W** | **1K-2W** | **1K-3W** | **1K-NI** | **BALCO** | **1.8K** | **3K** | **10KS** | **10K-E1** **AN** (Type III) | **AN-BC** | **CP** (Type II) | **CSI** | **20K** | **100KS**	
C. Configuration *No Selection Required*	**O-SUN** = Outside Sun Shield (NEMA 4X) ➝	**O-SUN**
D. NIST (Temperature) *Select One (1)*	**----** = No NIST Certificate | **NIST** = NIST Certificate (Must Specify 1, 3 or 5 Points)	