





## STRAP ON **Non-Intrusive Pipe Mount, Thermistor**

The ACI Thermistor Strap-On Series features a 1.5" square copper plate with the sensor encapsulated to the back side of the plate to improve the thermal conductivity between the pipe and the sensor when an Immersion style sensor can't be inserted into the pipe. Each sensor has two, 14 inch 22 AWG Etched Teflon colored lead wires to differentiate 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 as well as to improve the thermal response times using our high quality, thermally conductive epoxy. The Strap-On Series sensors can be used to monitor pipe sizes from 1 % " to 10" in diameter. For best accuracy and increased thermal conduction between the pipe and the sensor, ACI

recommends to clean the pipe before applying thermal grease as well as to insulate the sensor from the effects of the ambient air. Please contact ACI for more information regarding this sensor or to discuss your application in further detail. Optional weather proof enclosure and NIST certificates are available upon request.

Applications: Cold Water Systems, Hot Water Systems, Retrofit, Hydronic Heating Systems, Chillers

Sensor Type   Sensor Curve:	Thermistor   Non-Linear, NTC (Negative Temperature Coefficient)		
Number Sensing Points:	One		
Number Wires:	Two (Non-Polarity Sensitive)		
Sensor Series Output @ 25°C (77°F)	<b>A/1.8K:</b> 1.8KΩ nominal   (Red/Yellow) <b>A/CSI:</b> 10KΩ nominal   (Green/Yellow		
(Lead Wire Colors):	<b>A/3K:</b> 3KΩ nominal   (White/Brown) <b>A/10KS:</b> 10KΩ nominal   (White/Blue		
	<b>A/AN (Type III):</b> 10KΩ nominal   (White/White)	<b>A/10K-E1:</b> 10KΩ nominal   (Gray/Orange)	
	<b>A/AN-BC:</b> 5.238KΩ nominal   (White/Yellow)	<b>A/20K:</b> 20KΩ nominal   (Brown/Blue)	
	<b>A/CP (Type II):</b> 10KΩ nominal   (White/Green)	<b>A/100KS:</b> 100KΩ nominal   (Black/Yellow)	
Accuracy 0-70°C (32-158°F):	+/-0.2°C (+/-0.36°F) except <b>A/10K-E1 Series:</b> +/-0.3°C (+/-0.54°F);		
	<b>A/1.8K Series:</b> +/- 0.5°C @ 25°C (77°F) and (+/-1.0°C) (+/-1.8°F)		
Stability:	Sensor Dependent; Contact ACI for more information on specific sensor		
Response Time (63% Step Change):	30 Seconds nominal		
Power Dissipation Constant:	3 mW/°C except <b>A/1.8K Series:</b> 1 mW/°C   <b>A/10K-E1 Series:</b> 2 mW/°C		
Enclosure Specifications, Operating	<b>A/XX-S-GD:</b> Galvanized Steel, -40 to 93°C (-40 to 200°F), NEMA 1 (IP 10)		
Temperature Range, Ratings:	<b>A/XX-S-PB:</b> ABS Plastic, -30 to 85°C (-22 to 185°F), UL94-HB, Plenum Rated		
	<b>A/XX-S-4X:</b> Polystyrene Plastic, -40 to 70°C (-40 to 158°F), UL94-V2, NEMA 4X (IP 66)		
Storage Temperature Range:	-40 to 80°C (-40 to 176°F)		
Operating Humidity Range:	10 to 95% RH, non-condensing		
Pipe Mount Sensor Enclosure Material:	14" (35.6cm)   22 AWG (0.65mm)		
Fits Pipe Sizes:	Copper		
Foam Material   Flammability Rating:	Neoprene/EPDM/SBR Polymer   UL94-HF1; MIL-R-6130C; FMVSS-302		
Lead Length   Conductor Size:	<b>A/XX-S-XX:</b> 1 1/4" (32mm) to 4" (100mm)   <b>A/XX-S10-XX:</b> 2" (50mm) to 10" (250mm)		
Lead Wire Insulation   Wire Rating:	Etched Teflon (PTFE) Colored Leads   MIL-W-16878/4 (Type E)		
Conductor Material:	Silver Plated Copper		
Product Dimensions:	See Drawing on Back of Data Sheet		
Product Weight:	<b>A/XX-S-GD:</b> 0.80 lbs. (0.37kg)   <b>A/XX-S-PB:</b> 0.40 lbs. (0.18kg)   <b>A/XX-S-4X:</b> 0.55 lbs. (0.25kg)		
Agency Approvals:	CE, RoHS2, WEEE		

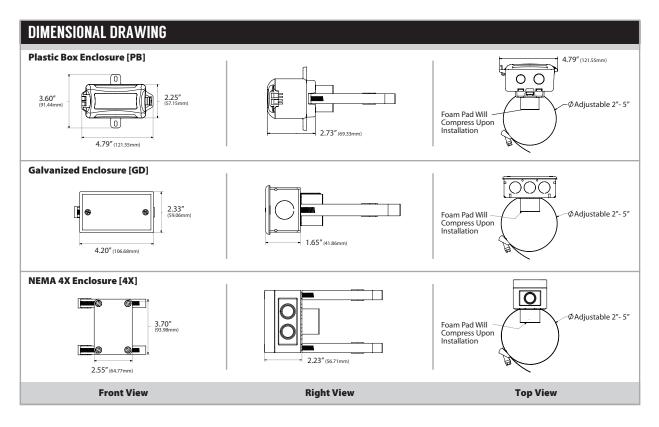






## TEMPERATURE | THERMISTORS | STRAP ON





CUSTOM ORDERING	Model # Example: A/ 1.8K 5 PB NIST A. B. C. D. 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   100KS	
C. Configuration Select One (1)	<b>S</b> = Strap-On (1.25" to 4" Pipe Size)   <b>S10*</b> = Strap-On (2" to 10" pipe size)	
D. Enclosure Select One (1)	GD = Galvanized   PB = Plastic   4X = NEMA 4X Weather Proof	
E. NIST Select One (1)	= No NIST Certificate   <b>NIST</b> = NIST Certificate (Must Specify 1, 3 or 5 Points)	

**Note\*:** Not available in "NEMA 4X" style enclosure option

ACCESSORIES ORDERING				
Model #	Item#	Description		
HARDWARE, 2-5" HOSE CLAMP	100244	Hardware, 2-5" Hose Clamp, Quick Release Worm Gear, 201/301 Stainless Steel		
HARDWARE, 2-12.25" HOSE CLAMP	142966	Hardware, 2-12" Hose Clamp, Quick Release Worm Gear, 201/301 Stainless Steel		
NSG HEAT TRANSFER PASTE 20Z	102595	Thermal Grease, 2 oz. Tube, Silicone Free, -40 to 320°F (-40 to 160°C)		
NSG HEAT TRANSFER PASTE 160Z	140574	Thermal Grease, 16 oz. Jar, Silicone Free, -40 to 390°F (-40 to 198°C)		





