

Product Data

A/AN Series A/CP Series A/3K Series A/1.8K Series A/20K Series

Temperature Sensor

Product Description

The A/10K-AN (Type III), A/10K-CP (Type II), A/3K, A/1.8K and A/20K Series temperature sensors are thermistor type sensors. These sensors provide a predictable output over a specified temperature range to meet each manufacturer's required input values. (See web page for complete curve chart specifications)

These units are offered in Room, Room with Set Point, Room with Override, Room with Setpoint and Override, and Room w/ Setpoint, Override, and RJ11 Jack, Stainless Steel Duct and Duct without Box, Immersion, Stainless Plate, Raw, Bendable Copper and Stainless Steel Rigid Averaging, Strap-On, Bullet Probe, Button Sensor, and Outdoor Air Configurations.

All ACI Room sensors may be ordered with an optional setpoint (see chart on the following page), override, or with a 4 pin RJ11 or 6 pin RJ12 communication jack with terminal blocks, for remote programming. These units are also available with a 1/8" RS232 Stereo Jack.

Product Specifications

Sensor Output	10K Ohms @ 77°F (25°C) Type III
_	10K Ohms @ 77°F (25°C) Type II
	3K Ohms @ 77°F (25°C)
	1.8K Ohms @ 77°F (25°C)
	20K Ohms @ 77°F (25°C)
Accuracy (0 to 70°C)	+/-0.2°C (+/-0.36°F)
Stability	+/- 0.13°C (0.23°F)
Operating Temperature Range	-40 to 302°F (-40 to 150°C)
Operating Humidity	0 to 90% RH non-condensing
Interchangeability	+/- 0.2°C (+/-0.36°F)
Power Dissipation Constant	3 mW / °C
For sensors with Display option, see	LCD Series Temp display cut sheet

Thermistor



Attributes

- Offer high accuracy and interchangeability over a wide temperature range.
- Higher resistance output relative to Platinum RTD's
- Non-polarity sensitive

Applications

- OEM / Industrial
- Light Industrial
- DDC Systems

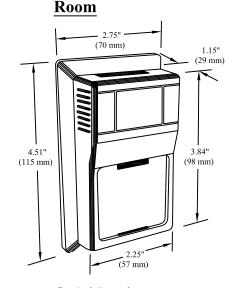


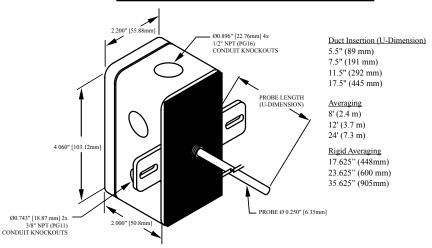
Automation Components, Inc. 2305 Pleasant View Rd. Middleton, WI 53562 PH: (608) 831-2585 FAX: (608) 831-7407

Wiring Diagrams available at www.workaci.com/instructions.htm c0000102rev1.pdf

A/

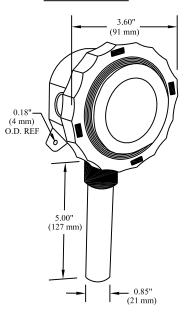
Duct /Averaging / Rigid Averaging

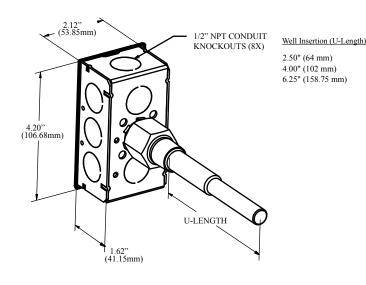




Outside Air

Immersion³





Ordering Information

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Sensor	Configuration	Communication Jack ¹	Pot	
^{′ [} ↑ ¹	-[-[-[
CP (Type II)	R - Room	RJ4 (4 Pin RJ1	1)	
AN (Type III)	RS - Room w	Setpoint RJ6 (6 Pin RJ1	2)	
3K	RO - Room w	Override RS232 (Stereo	Jack)	
1.8K	RSO - Room w/ Setpoint & Override			
20K	D - Duct 4", 8	", 12", 18"		
	DO -Duct without box 4", 8", 12", 18"			
	I - Immersion ³ 2.5", 4", 6"			
	A - Bendable Copper Averaging 8', 12', 24' RA - Rigid Averaging 18", 24", 36"			
	FA - Flexible Averaging (Cable) 8', 12', 24'			
	S - Strap On ³			
	O - Outdoor A	ir		
	SP - Stainless	Plate		
	BP - Bullet Pr	obe		
	W - Raw			

W-6' - Raw Sensor w/6'Leads

SBS - Stainless Button Sensor

BBS - Brass Button Sensor

ot Value¹ Setpoint Indicator¹ Pot Action¹ Display¹ Housing Type²]-] (PB) Plastic Housing Cool | Warm DA (Direct) () No Display (Standard) (Standard) 55 to 85 RA (Reverse) 10 to 30° C (GD) Galvanized (DF) LCD Display (BB) NEMA 3R (Degrees F) (4X) NEMA 4X (DC) LCD Display (Degrees C) ¹These Options are only available on ACI's Room Configurations. Resistors are available in series with pot values listed above. 100K

Contact ACI for details.

²Duct, Bendable Copper and Rigid Averaging come standard w/ plastic boxes. Optional enclosures include NEMA 3R (BB), NEMA 4X (4X) or the Galvanized Junction Box (GD).

2305 Pleasant View Rd. Middleton Industrial Park Middleton, WI 53562

400

1K

2K

3K

5K

8.5K

10K

20K

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³Immersion and Strap-On sensors come standard with the galvanized junction box. (The plastic enclosure is also available but is rated for applications below 140 degrees F) Additional enclosures include NEMA 3R (BB) or NEMA 4X (4X) for immersion and NEMA 4X (4X) for Strap On.