

TEMPERATURE

AVERAGING TEMPERATURE SENSORS ACI AVERAGING SERIES



DESCRIPTION

The **ACI Series Averaging Thermistor and RTD Sensors** are designed specifically for HVAC system temperature control. The averaging sensors come in thermistor and RTD sensor curves compatible with most BAS systems available today. Averaging sensors come with a foambacked handy box and in 12' (3.7m) or 24' (7.3) lengths.

The **ACI Averaging Sensor** should be mounted across a duct in a serpentine fashion with bends in a smooth ark using an M-648-K or CC-1G-K clip. The RTD probe is sensitive for the entire length, while the thermistor is sensitive at nine evenly spaced sensor locations. Use standard metal screws to secure to the duct.



A/AN-A-12-GD

FEATURES

- Lengths of 12' (3.7 m) or 24' (7.3 m)
- Two-year warranty
- Bendable copper

SPECIFICATIONS		DIMENSIONS	
Accuracy		in (cm)	
Thermistor	±0.36°F (0.2°C)	D 8" (20.3 cm)	
RTD	±0.5°F (0.28°C)	A12 12' (3.6 m)	
Sensor Type		A24 24' (7.3 m)	
Thermistor	10 kΩ Type II & III, 20 kΩ, 100 kΩ	0.125 (0.3) Foam Insulation	
RTD	100Ω, 1000Ω 385 curve	1.70 (4.3)	
Temperature Range	-40° to 302°F (-40° to 150°C)	0.90 (2.3)	
Stability		4.0 (10.2)	
Thermistor/RTD	0.24°F (0.13°C) over five years	0.76 (1.9)	
Heat Dissipation	Thermistor, 3 mW/°C (power needed to raise the temperature by 1°C)	A/*-A-X-60 Averaging	
Enclosure Rating	NEMA 1, Galvanized metal box		
Wiring Terminations	10" of 22 AWG wire or terminal strip		
Weight			
12'	1.2 lb (0.54 Kg)		
24'	2.12 lb (0.96 Kg)		
Approvals	RoHs		
Warranty	5 years		

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ORDERING INFORMATION

MODEL	DESCRIPTION
A/AN-A-12-GD	Averaging sensor with 12' (3.6 m) length, 10 kΩ thermistor, Type 3 (ACI/AN-A12)
A/CP-A-12-GD	Averaging sensor with 12' (3.6 m) length, 10 kΩ thermistor, Type 2 (ACI/CP-A12)
A/20K-A-12-GD	Averaging sensor with 12' (3.6 m) length, 10 kΩ thermistor, Type 42 (ACI/20K-A12)
A/100-2W-A-12-GD	Averaging sensor with 12' (3.6 m) length, 100 kΩ RTD 385 curve, two-wire (ACI/100-2-A12)
A/1K-2W-A-12-GD	Averaging sensor with 12' (3.6 m) length, 1 kΩ RTD 385 curve, two-wire (ACI/1000-2-A12)

RELATED PRODUCTS

CC-1G-K	Plastic capillary and sensor holder mounting clip
T85PNR Series	Temperature transmitter for type 85, 385 platinum curve sensors, cover mounted
T85U Series	Temperature transmitter for type 85, 385 platinum curve sensor, track mounted
UR	Moisture-resistant three-wire butt splice