

TEMPERATURE

DUCT TEMPERATURE SENSORS ACI DUCT SERIES



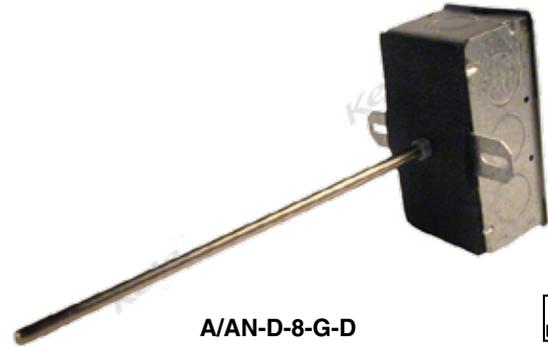
DESCRIPTION

The **ACI Duct Series Thermistor and RTD Sensors** are designed specifically for HVAC system temperature control. The duct sensors come in thermistor and RTD sensor curves compatible with most BAS systems available today. Duct sensors come with a foam-backed handy box and 8" probe.

The **A*D Duct Sensor** should be mounted close to the center of the duct and penetrate through any duct insulation at least 1" (2.5 cm) into the airflow. The probes are sensitive within 1" of the tip and insert through a 3/8" (1 cm) hole. Use standard metal screws to secure to the duct.

FEATURES

- *Five-year warranty*
- *Wide selection of thermistor or RTD curves*
- *Stainless steel probes*



A/AN-D-8-G-D

SPECIFICATIONS	
Accuracy	
Thermistor	±0.36°F (0.2°C)
RTD	±0.50°F (0.28°C)
Sensor Type	
Thermistor	10 kΩ Type II & III, 20 kΩ, 100 kΩ
RTD	100Ω, 1000Ω 385 curve
Temperature Range	-40° to 275°F (-40° to 135°C)
Stability	
Thermistor	0.24°F (0.13°C) over five years
RTD	$\pm 0.1^{\circ}\text{C}$ drift
Heat Dissipation	Thermistor, 3 mW/°C (power needed to raise the temperature by 1°C)
Measurement Range	-40° to 302°F (-40° to 150°C)
Enclosure Rating	NEMA 1, Galvanized metal box
Wiring Terminations	10" of 22 AWG wire or terminal strip
Weight	
4"	0.6 lb (0.27 Kg)
8"	0.72 lb (0.72 Kg)
12"	0.9 lb (0.41 Kg)
18"	1.0 lb (0.45 Kg)
Approvals	CE
Warranty	5 years

DIMENSIONS																																									
in (cm)																																									
ACI*/D/AV Duct/Averaging																																									
<table border="1"> <thead> <tr> <th colspan="5">Handy Box Height</th> </tr> <tr> <th></th> <th>8</th> <th>12</th> <th>18</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>AN</td> <td>4.19 (10.6)</td> <td>3.43 (8.71)</td> <td>3.43 (8.71)</td> <td>3.43 (8.71)</td> </tr> <tr> <td>CP</td> <td>3.18 (8.07)</td> <td>3.43 (8.71)</td> <td>3.43 (8.71)</td> <td>3.43 (8.71)</td> </tr> <tr> <td>20</td> <td>3.43 (8.71)</td> <td>3.43 (8.71)</td> <td>3.43 (8.71)</td> <td>3.43 (8.71)</td> </tr> <tr> <td>100K</td> <td>3.43 (8.71)</td> <td>3.43 (8.71)</td> <td>3.43 (8.71)</td> <td>3.43 (8.71)</td> </tr> <tr> <td>100</td> <td>3.91 (9.93)</td> <td>3.57 (9.06)</td> <td>3.58 (9.09)</td> <td>3.58 (9.09)</td> </tr> <tr> <td>1K</td> <td>3.57 (9.06)</td> <td>3.57 (9.06)</td> <td>3.58 (9.09)</td> <td>3.58 (9.09)</td> </tr> </tbody> </table>		Handy Box Height						8	12	18	4	AN	4.19 (10.6)	3.43 (8.71)	3.43 (8.71)	3.43 (8.71)	CP	3.18 (8.07)	3.43 (8.71)	3.43 (8.71)	3.43 (8.71)	20	3.43 (8.71)	3.43 (8.71)	3.43 (8.71)	3.43 (8.71)	100K	3.43 (8.71)	3.43 (8.71)	3.43 (8.71)	3.43 (8.71)	100	3.91 (9.93)	3.57 (9.06)	3.58 (9.09)	3.58 (9.09)	1K	3.57 (9.06)	3.57 (9.06)	3.58 (9.09)	3.58 (9.09)
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TEMPERATURE

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ORDERING INFORMATION

MODEL	DESCRIPTION
A/AN-D-8-GD	Duct mount 10 kΩ type III thermistor with 8" (20.3 cm) insertion (ACI/AN-D8)
A/CP-D-8-GD	Duct mount 10 kΩ type II thermistor with 8" (20.3 cm) insertion (ACI/CP-D8)
A/20K-D-8-GD	Duct mount 20 kΩ type IV thermistor with 8" (20.3 cm) insertion (ACI/20K-D8)
A/100K-D-8-GD	Duct mount 100 kΩ type II thermistor with 8" (20.3 cm) insertion
A/100-2W-D-8-GD	Duct mount 100Ω RTD 385 curve, two-wire with 8" (20.3 cm) insertion (ACI/100-2-D8)
A/1K-2W-D-8-GD	Duct mount 1 kΩ RTD 385 curve, two-wire with 8" (20.3 cm) insertion (ACI/1000-2-D8)

RELATED PRODUCTS

T85U-XR	1000 ohm, Type 85 4-20 mA temperature transmitter, custom rangeable
T81U-XR	100 ohm, Type 81 4-20 mA temperature transmitter, custom rangeable
UR	Moisture-resistant three-wire butt splice