

Air Temperature Sensor - Model 12



- Ambient Air Temperature Sensor
- Monitors Slowly Changing Temperatures
- Wide Temperature Range for Industrial Applications
- 0 - 5 VDC Output
- Ideal for Wind Machines and Cargo Temperature Applications

The Model 12 is an air temperature sensor. It is intended for use in applications that monitor slowly changing temperatures. The unit gives approximately 0.5° F (0.2° C) resolution when used with an 8-bit analog input.

Applications

Applications for the sensor include the following:

- Monitor ambient temperature and signal wind machines to start.
- Monitor and maintain cargo temperatures.

Temperature Sensing Range

VDC OUT	°C	°F
0.00	- 18.0°	0°
0.25	- 14.5°	5.8°
0.50	- 11.4°	11.5°
0.75	- 8.2°	17.3°
1.00	- 5.0°	23.0°
1.25	- 1.8°	28.8°
1.50	1.4°	34.5°
1.75	4.6°	40.3°
2.00	7.8°	46.0°
2.25	11.0°	51.8°
2.50	14.2°	57.5°
2.75	17.4°	63.3°
3.00	20.6°	69.0°
3.25	23.8°	74.8°
3.50	27.0°	80.5°
3.75	30.2°	86.3°
4.00	33.3°	92.0°
4.25	36.6°	97.8°
4.50	39.7°	103.5°
4.75	42.9°	109.3°
5.00	46.0°	115.0°

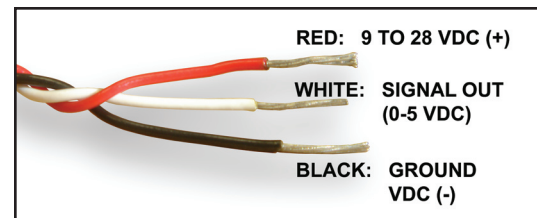
How to Order:

Air Temperature Sensor - Model 12
FW Murphy part number: 10-70-7483

Warranty - A limited warranty on materials and workmanship is given with this FW Murphy product. A copy of the warranty may be viewed or printed by going to www.fwmurphy.com/support/warranty.htm.

Sensor Hookup

Connect the Model 12 Air Temperature Sensor as shown:



Specifications

Useful Operating Temperature Range:

0° to +115° F (-18° to +46° C)

Component Temperature Range:

-85° to +300° F (-65° to +150° C)

Accuracy:

2% of full scale with software offset correction.

Voltage: Power Input Voltage:

9 to 28 VDC

Voltage: Current Draw:

1 ma

Output:

0 to 5 VDC

Product Weight:

0.05 lb. (0.02 kg.)

Sensor Diameter:

0.5" (13 mm)

Sensor Length:

2.25" (57 mm)

Wire Length:

24.0" (0.61 m)

Shipping Weight:

0.3 lb. (0.14 kg.)

Shipping Dimensions:

6.0"H x 4.0"W x 4.0"D (152 x 102 x 102 mm)

CALL MURCAL TO PLACE YOUR ORDER

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