

## Flange Mount Duct Temperature Sensor

### >Description:

This sensor is used to measure the supply and return temperature in HVAC system. The flange mount design makes it easy to install the sensor in tight quarters. There are several sensor elements to choose from which guarantee compatibility with all popular DDC systems.

The probe in the photo is our standard model which is always in stock, it has a 8 inch probe and 6 inch long cable, and employs either a precision thermistor or platinum film sensor. Field calibration is not generally required. The cable is plenum rated.



### Features:

The sensors employ precision interchangeable thermistors and RTD which are compatible with all the major building automation systems.

- Designed for temperature sensing in an HVAC and light industrial control applications
- Precision interchangeability eliminates the necessity for individual circuit calibration.
- Data sheets for the standard items appear on the web at [www.omicron-sensing.com](http://www.omicron-sensing.com).
- Omicron is able to produce custom sensors in small volume at standard sensor pricing

There are several sensor element ranges to choose from, which guarantee compatibility with all popular DDC systems. The sensor elements are precision thermistors or platinum RTDs. Field calibration is not generally required. The probe is epoxy sealed to prevent moisture from migrating into the probe. Custom probe lengths, wire types and sensor elements are available for large OEM projects.

The sensor is a high quality unit manufactured to high standards, using materials and assembly techniques. The probe material is stainless steel with a welded and ground tip. The DTS probe is baked and then epoxy sealed to eliminate long term moisture problems. The flange accepts two M6 screws, and is made from galvanized steel.

### Specifications:

|                       |   |                         |
|-----------------------|---|-------------------------|
| Thermistor Accuracy   | : | $\pm 0.1^\circ\text{C}$ |
| Platinum RTD Accuracy | : | $\pm 0.2^\circ\text{C}$ |
| Thermistor Range      | : | -70°C to 150°C          |
| Platinum RTD Range    | : | -200°C to 300°C         |
| Probe Material        | : | Stainless Steel         |
| Cable Properties      | : | FT4, 80°C, 600V         |



## Flange Mount Duct Temperature Sensor

## HOW TO ORDER

## ⚙ Description:

DTS Duct Temperature Sensor

DTS

## ⚙ Description:

FL Flange Mount

FL

## ⚙ PROBE SIZE:

|   |    |    |     |
|---|----|----|-----|
| 4 | 4" | 9  | 9"  |
| 8 | 8" | 12 | 12" |

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## ⚙ TEMPERATURE CURVE:

|    |                         |    |                          |    |                 |
|----|-------------------------|----|--------------------------|----|-----------------|
| 2  | PT-100 3 Wire           | 5  | 1.8KΩ Thermistor         | 6  | 3kΩ Thermistor  |
| 7  | 10KΩ Thermistor, Type 2 | 9  | 100KΩ Thermistor         | 11 | LM334 IC SENSOR |
| 12 | PT-1000, 2 Wire         | 13 | Ni-1000, 2 Wire          | 20 | 20kΩ Thermistor |
| 21 | LM335 IC SENSOR         | 24 | 100KΩ Thermistor, Type 3 |    |                 |

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## ⚙ WIRE LENGTH:

|   |    |    |          |     |             |
|---|----|----|----------|-----|-------------|
| 6 | 6" | 12 | 12"(1ft) | 120 | 120" (10ft) |
|---|----|----|----------|-----|-------------|

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\*Thermistors, pt elements and probe sizes for all popular control systems are available, send us an email if you don't see what you need online.

Ordering Example: DTS - FL - 12 - 7 - 12