

DTS3000 DUCT TEMPERATURE

This sensor is used to measure the supply and return temperatures in HVAC systems. There are several sensor elements to choose from which guarantee compatibility with all popular DDC systems.

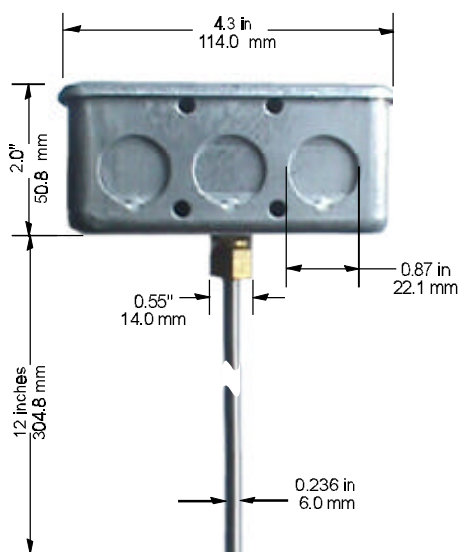
The probe is 12 in long, and employs either a precision thermistor or platinum film sensor depending on the DDC system requirements. Field calibration is not generally required.

Sensor Property	Specification
Thermistor Accuracy	+/- 0.2C
Platinum RTD Accuracy	+/- 0.4C
Thermistor range	-70C to 150C
Platinum RTD range	-70C to 200C
Probe Material	Stainless steel
Cable properties	FT4, 80C, 600V

Construction

The sensor is a high quality unit manufactured to industrial standards, borrowing materials and assembling techniques from the industrial sector.

The probe material is stainless steel with a welded and ground tip. The DTS3000 probe is baked and then epoxy sealed to eliminate long term moisture problems.



DTS3000 Duct Temperature Sensor

Installation

The location of the sensor is determined by the following parameters:

- Insert the probe is well into the airstream in an area with no stratification or local effects.
- A supply air sensor is located at any convenient location two or three meters downstream from the nearest fan and coil.
- A return temperature sensor can be mounted anywhere in the return duct, a meter or two before the mixing section usually.

To install the sensor, drill a 3/4" hole in the duct and insert the probe into the airstream. Secure the electrical box to the duct with two sheet -metal screws. The knockouts on the electrical box accept a 1/2" pipe or flex connector. The sensor requires two conductors, normally 18 ga unshielded twisted pair.

Ordering Information

Sensor	DDC System	Part#
10K thermistor, curve 3	Temco, Andover AAM, Siebe, Delta, Multinet	DTS3000-7
10K thermistor, curve 2	ALC, Trane, CSI, Solidyne	DTS3000-2 4
1000 ΩPt RTD	Honeywell, Johnson, L&S	DTS3000 -12
3k thermistor	Alerton	DTS3000-6
100k thermistor	Landys&Gyr Powers	DTS3000-9