

Duct Sensor

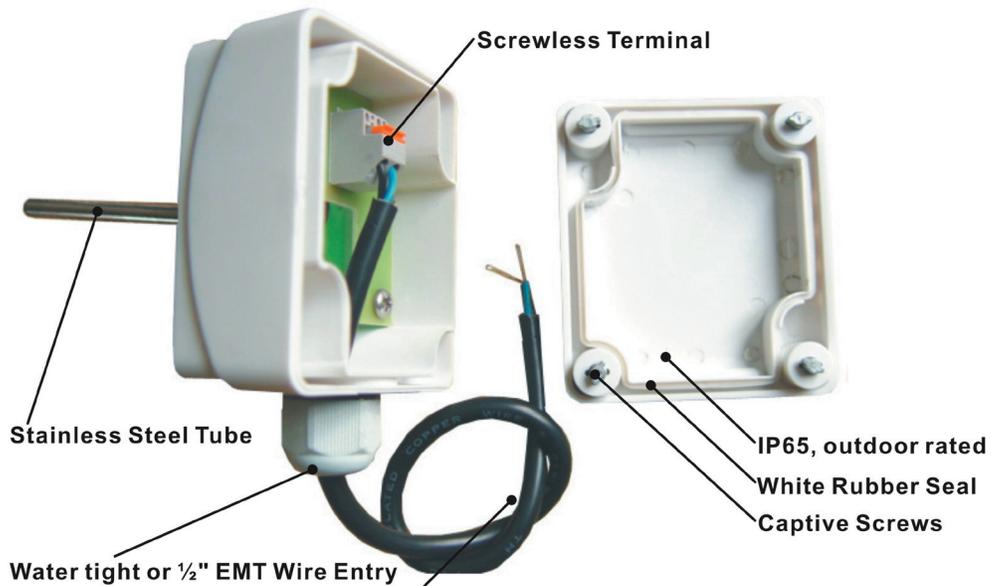
Applications

The duct sensor is used to measure the supply and return air temperature in HVAC systems. There are several sensor elements to choose from which guarantee compatibility with all popular DDC systems. There is a precision thermistor. The probes are epoxy sealed to prevent moisture from migrating in. Field calibration is not generally required. The standard probe length is 12 inch. Custom probe lengths, wire types and sensor elements are available for large OEM projects. Ask about our plastics & metal manufacturing capabilities for custom housings as well.

8 mm Cable Type:



1/2" EMT Type:



Cable showing only to demonstrate the connection method only, not included.

Property Specifications

Thermistor Accuracy	+/- 0.2 °C
Thermistor Range	-70 °C to 150 °C
Probe Material	Stainless Steel
Cable Properties	FT4, 80C, 600V

Construction

The sensor is a high quality unit manufactured to industrial standards. The probe material is stainless steel with a welded and ground tip, not a separate welded plug as some other probes in the HVAC industry. The duct sensor probe is baked and then epoxy sealed to eliminate long term moisture problems.

Installation

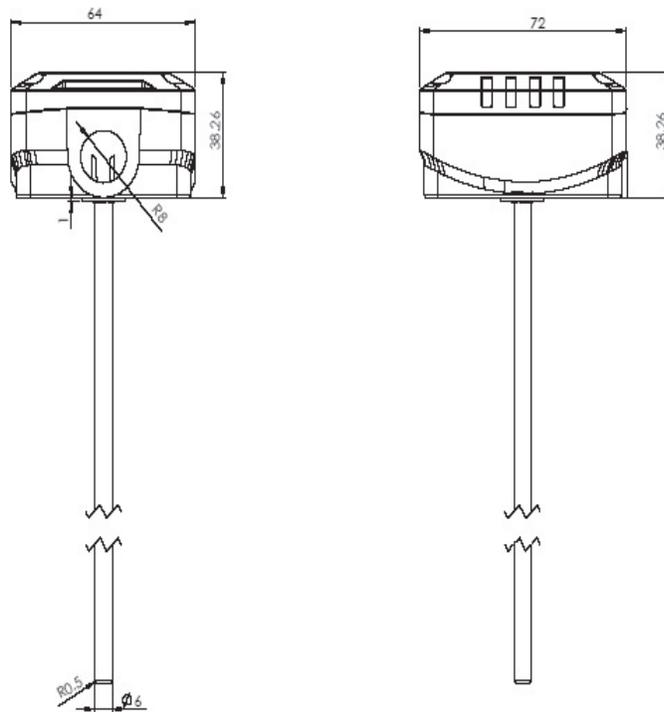
Insert the probe well into the air stream in an area with no stratification or local thermal effects.

A supply air sensor is located at any convenient location two or three meters down stream from the nearest fan and coil.

A return air 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 18ga unshielded twisted pair.

Dimensions (mm)



Ordering Information

Part Number	Description
DTS-PE-8-7	Duct temp sensor, plastic box for 1/2" EMT connection, 8" probe, 10k type 2 thermister
DTS-PE-12-7	Duct temp sensor, plastic box for 1/2" EMT connection, 12" probe, 10k type 2 thermister
DTS-PW-8-7	Duct temp sensor, plastic water resistant box, 8" probe, 10k type 2 thermister
DTS-PW-12-7	Duct temp sensor, plastic water resistant box, 12" probe, 10k type 2 thermister