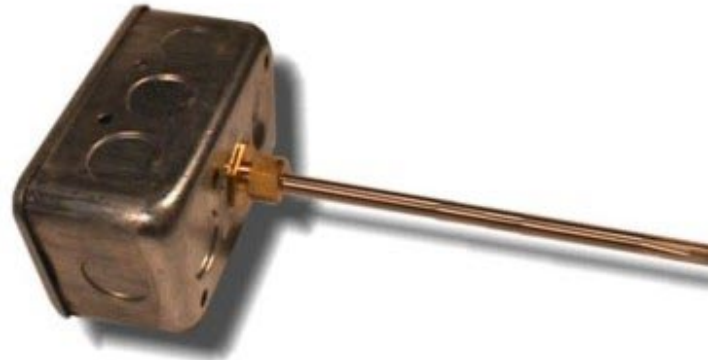


DUCT TEMPERATURE SENSOR

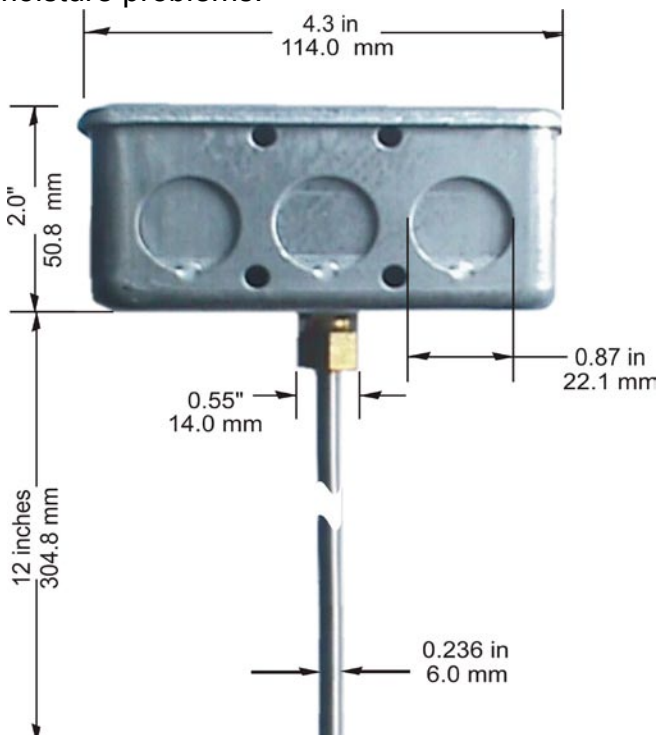
Description

The duct sensor is intended for use in sensing supply and return air temperature in HVAC applications. There are several sensor element ranges to choose from which to match all popular DDC systems. The sensor elements are precision thermistor or platinum film sensors with guaranteed stability over time. The probes are epoxy sealed to guarantee moisture cannot migrate into the probe. Field calibration is not required. There are two standard probe lengths, 12 in and 8 in long. Custom probe lengths, wire types and sensor elements are available for larger OEM projects. Ask about our plastics & metal manufacturing capabilities for custom housings as well.



Construction

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



Features:

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, 600

Installation

- Select a mounting location where there is no stratification or local thermal effects.
- A supply air sensor is normally two or three meters down stream from the nearest fan and coil.
- A return air sensor can be located 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 sheetmetal screws. The knockouts on the electrical box accept a 1/2" pipe or flex connector. The sensor requires two conductors, normally 18g unshielded twisted pair.

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