

DUCT AIR TEMPERATURE

- Platinum RTD or Thermistor
- Rugged Construction
- Hinged cover case

Easy to install with hinged cover

We have engineered our duct probe to ensure long life, rapid response and to prevent heat loss from leaks. The sensor is mounted using PC board technology to eliminate strain on the sensor leads, increasing reliability. The standard version is intended for use in non-condensing atmospheres. For applications where condensation is likely to be present ask for our moisture proof version.

Our molded case with hinged cover is easy to install. The cover is fastened with one captive screw. Provision is made for a front identification tag. The back is completely smooth so it fits flush against the mounting surface. Circuit board slots inside are designed to accept a 2-wire transmitter if required.

TECHNICAL DATA

Platinum RTD's are the most stable temperature sensors between -50 and 400C. They show almost no calibration drift with time. Their stability, wide temperature range and almost linear output make them the choice in demanding applications.

Our standard RTD uses a 100 ohm thin film element to DIN 43 760 (IEC 751) with a tolerance of 0.3 deg C. We also supply thin film RTD's with a tolerance of +/- 0.1 C or 0.05 percent in values of 100, 500 and 1000 ohms.

Wire wound ceramic RTD's with accuracies as high as +/- 0.06 degrees Celcius or 0.025 percent are in stock for high precision applications.

ORDERING DATA

TS - D - () - () - ()

stem length	sensor type	sensor value
in inches	R = RTD	100 = 100 ohms
	T = Thermistor	10K = 10k ohms

e.g. TS-D-12-T-10K Duct sensor, 12" long with 10K thermistor



NTC Thermistors are the most sensitive sensors known for temperature measurement from -50C to +150C.

The temperature coefficient of thermistors can be as high as several percent per degree C. This means that lead resistance from installation of thermistors in remote areas has minimal effect on system accuracy.

Since thermistors are semiconductors they must not be exposed to temperatures near their maximum operating limits or they can drift out of specified tolerance.

Our standard thermistor has a 10K resistance at 25C and a tolerance of +/- 0.2C. On request other calibrations and accuracies are available.

Operating Temperature The construction of these sensors limits their maximum operating temperature to 105C.



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