

# AVERAGING PROBE

- Platinum RTD or Thermistor
- Conforms to irregular shapes
- Easy to install
- Flexible-May be bent

## Rugged copper sheath

Our probe is constructed of a bendable copper 1/4 inch O.D. tube. Inside the probe numerous sensors are encapsulated at equal distances along the length of the sheath. The complete assembly acts as a single temperature sensor and any temperature change is averaged across the sensors. The probe can easily be bent to fit any size duct.

For lengths up to 12 feet or for most economical applications, we average the readings of four internal sensors. For 24 foot probes and more demanding applications, we use nine sensors spaced along the length of the sheath.

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. Their stability, wide temperature range and almost linear output make them the choice in demanding applications.

Our standard RTD's use 100 or 1000 ohm thin film elements to DIN 43 760 (IEC 751) class B with a tolerance of 0.3 deg C. We also supply class A thin film RTD's as well as sensors with wire wound elements in class B, class A and 1/5 DIN tolerances.

## ORDERING DATA

**TS - A - (                    ) - (                    ) - (                    ) - (                    )**

stem length in feet	no. sensors 4 or 9	sensor type R = RTD T = Thermistor	sensor value 100 = 100 ohms 10K = 10k ohms
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e.g. TS-A-24-9-T-10K Averaging sensor 24 ft long with nine 10K thermistors



**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 they 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.

**ENERCORP** instruments Ltd

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