

PLATE TEMPERATURE SENSOR

- Platinum RTD or Thermistor
- Rugged Construction
- Low Cost

Excellent for public places

Our plate air temperature sensors are ideal for public or high traffic areas where a conventional space sensor could be easily damaged. The flush mounting eliminates accidental damage from knocks by machinery or people. The plain cover makes it unattractive to vandals since its function is not obvious.

The stainless steel face reflects radiant heat while the sensor mounted in contact with the back of the plate provides fast, accurate space temperature readings.

An adhesive foam backing secures the sensor to the plate and provides some insulation from temperatures inside the mounting wall. If mounting this sensor on an outside wall or one with a temperature that could be different than the surrounding space the installer should add sufficient insulation behind the sensor to ensure accurate space temperature readings.



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.

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.

ORDERING DATA

TS - PL - () - ()

sensor type	sensor value
R = RTD	100 = 100 ohms 1000 = 1000 ohms
T = Thermistor	10K = 10k ohms

e.g. T-PL-R-1000 Plate sensor with 1000 ohm RTD



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