

STRAP-ON TEMPERATURE SENSORS

- Platinum RTD or thermistor
- Rugged Construction
- 0.1, 0.2 or 0.3C accuracy

All purpose economy

We have engineered our strap-on sensors to ensure long life and rapid response. The sensor is mounted using PC board technology to eliminate strain on the sensor leads, increasing reliability. This assembly is potted in heat transfer compound to provide rapid response and cushion the sensor from vibration. The eight foot PVC lead wire makes it convenient to connect to a nearby utility box.



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 platinum thin film element to DIN 43 760 (IEC 751) with a tolerance of +/- 0.3 deg C. We also supply thin film RTDS's with a tolerance of +/- 0.1 C in values of 100, 500 and 1000 ohms. Wire wound ceramic RTD's with accuracies as high as +/- 0.06 degrees Celcius are in stock for high precision applications.

NTC thermistors are the most sensitive sensors known to exist 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 locations has minimal effect on system accuracy. Since they are semiconductors they must not be exposed to

temperatures above their operating limits or they can drift out of specified tolerance.

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

Construction

Sheath	316 stainless steel
Lead	8'-6" long PVC
Conductors	22 gage, 3 conductor for RTD's and 2 conductor for thermistors
Thermistor	Standard is 10K at 25C and 817 ohms at 100C with a tolerance of 0.2 deg C. Other calibrations are available on request.
RTD	100 ohms at 0C DIN class B standard. Other calibrations are available on request.
Temperature	-10..+105C

ORDERING DATA

TS - SO - () - ()

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

e.g. TS-SO-T-10K Strap on sensor with 10K thermistor



25 Shornclyffe Rd, Toronto, ON, M9B 3S4 Tel 1(800)ENERCORP or (416)231-5335 Fax 1(877)ENERCORP or (416)231-7662
 Visit our on-line catalogue at www.enercorp.com our e-mail address is info@enercorp.com