

### Precision Centigrade Temperature Sensor

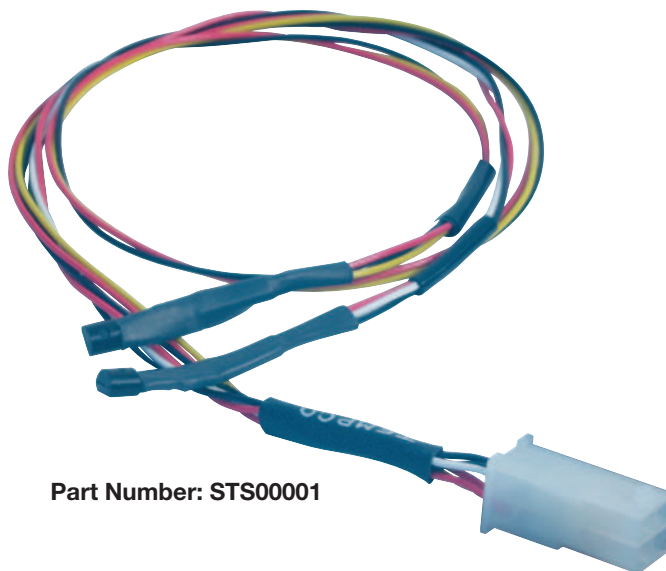
This sensor probe utilizes a dual precision integrated-circuit temperature sensor, whose output voltage is linearly proportional to the Celsius temperature.

This sensor does not require any external calibration or trimming to provide typical accuracies of  $\pm 1/4^\circ\text{C}$  at room temperature or  $\pm 3/4^\circ\text{C}$  over a full  $-55^\circ\text{C}$  to  $150^\circ\text{C}$  temperature range. This sensor includes a Molex 4-pin connector.

#### Design Features:

- \* Calibrated directly in  $^\circ\text{C}$
- \* Linear  $+10.0\text{mv}/^\circ\text{C}$  scale factor
- \*  $\pm 1/4^\circ\text{C}$  accuracy (at  $25^\circ\text{C}$ )
- \* Rated to full  $-55^\circ\text{C}$  to  $150^\circ\text{C}$  range
- \* Suitable for remote applications
- \* Operates from 4 to 30 volts
- \* Less than  $60\mu\text{A}$  current drain
- \* Low self-heating,  $0.08^\circ\text{C}$  in still air
- \* Nonlinearity only  $\pm 1/4^\circ\text{C}$  typical
- \* Low impedance output,  $0.1\Omega$  for  $1\text{mA}$  load

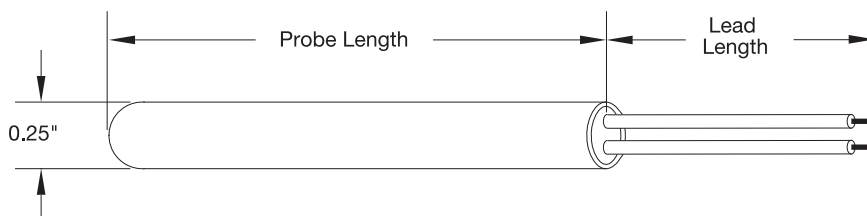
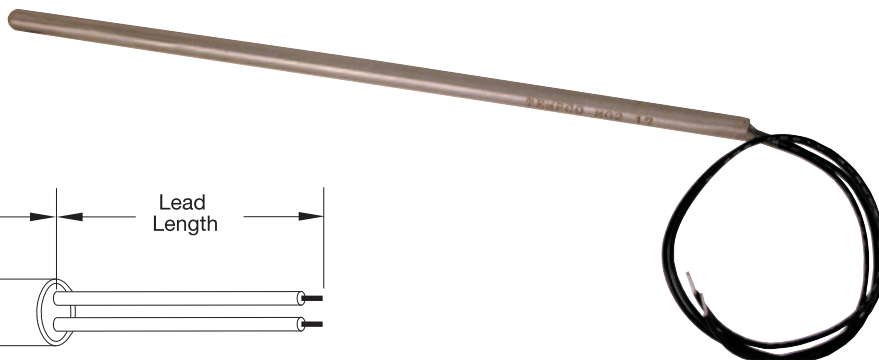
**This Sensor is available in other designs and configurations. Consult Tempco with your requirements.**



Part Number: STS00001

### 2000 Ohm RTD Sensor

This sensor probe is a fast responding 2000 ohm RTD sensor used widely in the HVAC, appliance and automotive industries. Sensor is protected in a 316 SS housing and supplied with 22 ga. Teflon® leads.



#### Design Features:

- \* 2000 ohm nominal resistance at  $20^\circ\text{C}$
- \* Accurate to  $\pm 0.7^\circ\text{C}$  at  $20^\circ\text{C}$
- \* Near linear temperature sensitivity; provides  $8\Omega/^\circ\text{C}$  sensitivity
- \*  $\pm 3\%$  max. linearity (can be linearized to  $\pm 0.2\%$ )
- \* Long term stability
- \* Interchangeable without sensor-to-sensor recalibration
- \* Operating temperature range of  $-40^\circ\text{C}$  to  $+150^\circ\text{C}$

Part Number	Probe Length	Lead Length
STS00002	8"	10-1/2"
STS00003	4"	13"

**This type of sensor is also available in other designs and configurations. Consult Tempco with your requirements.**