

# TEMPERATURE SENSOR

4-20mA RTD



## Key Features

- -60°F to +160°F range (-51°C to +71°C)
- 2-wire transmitter with RTD probe
- 24VDC, industry standard linear 4-20 mA output
- Easily adapted to GG line gas detection controllers
- Great for engine room ventilation control and refrigerated areas
- Watertight enclosure designed for washdown areas and outdoors
- Long term accuracy/stability of 0.1% of span/year

Use in conjunction with CTI gas sensors for a complete engine room ventilation system package.

The Temp Sensor TS2 was designed for indoor/outdoor temperature monitoring. The IP65 aluminum enclosure can withstand washdown areas and other harsh environments. A fast-acting RTD reacts quickly to temperature changes and features a very long expected life with no change in accuracy.

This sensor is used for measuring indoor air temperature. Typical applications are mechanical rooms, refrigerated rooms, etc. Installation should be about 6 ft off the floor, and not located near a cooling or heat source, or directly in front of air blowing channels.

The Temp Sensor TS2 connects to any 24Vdc, 4-20mA controller via 2-conductor cable. The weatherproof powder-coated enclosure will easily stand up to harsh environments.

## Applications

- Engine Rooms
- Refrigerated areas
- Mechanical Rooms
- Sea Vessels
- Chemical Plants
- Heat Treatment

## Benefits

- Easy integration
- Long-term reliability



The **Temp Sensor TS2** is an easy solution for ventilation or temperature control and integrates nicely with the GG line controllers.

This simple 2-wire device mounts almost anywhere and can be installed side-by-side with gas sensors to provide temperature and gas detection monitoring points at each location.

The **Temp Sensor TS2** is shipped with a factory calibration that should not require calibration for 5-10 years. Checking against a calibrated standard is recommended on an annual basis.

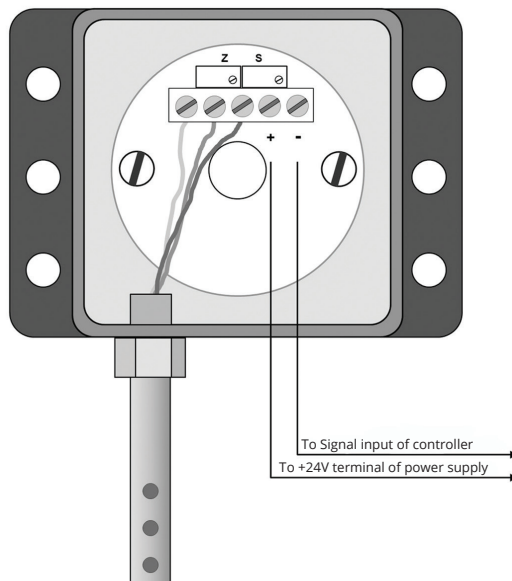
### Installation Information

- Use 2 or 3-conductor, insulated, stranded, shielded copper cable.
- Do not pull sensor wiring with AC power cables. This can cause electrical interference.
- Ground the shield at the main control panel. Connect the shield wire to the sensor chassis.
- Should be easily accessible for calibration and maintenance.
- Take air movement and ventilation patterns into account.

### Ordering Information

The **Temp Sensor TS2** is delivered ready to install. Use the model number below to order.

**Order #:** [Temp Sensor TS2](#)



## SPECIFICATIONS

Due to ongoing research and product improvement, specifications are subject to change

#### Input Power:

24 VDC, 25 mA

#### Output Signal:

Linear 4/20 mA (max input impedance: 700 Ohms)

#### Linearity:

+/- 0.1% of full-scale

#### Repeatability:

+/- 1% of full-scale

#### Accuracy:

+/- 1% of full-scale

#### Zero Drift:

Less than 0.1% of full-scale per month, non-cumulative

#### Span Drift:

Less than 0.1% of full-scale per year

#### Temperature Range:

-60°F to +160°F (-51°C to +71°C)

#### Humidity Range:

0-95% RH condensing (100% intermittent), with proper conduit seals

#### Wiring Connections:

2-conductor, shielded, stranded,  $\geq$  20 AWG cable up to 1500 ft

#### Terminal Block: (Field Wiring)

16-26 AWG, torque 4 lbs-in

#### Enclosure:

Powder-coated aluminum NEMA 4X, Captive screws in lid. For non-classified areas

#### Dimensions:

4.6" high x 3.4" wide x 1.75" deep

#### Weight:

1 lb

#### Warranty:

2 years