TEMPERATURE SENSOR

4-20mA RTD

Key Features

- -60°F to +160°F range (-51°C to +71°C)
- 2-wire transmitter with RTD probe
- 24 VDC, industry standard linear 4-20 mA output
- Easily adapted to CTI 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 24 VDC, 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

CALIBRATION TECHNOLOGIES INC.
GAS DETECTION SPECIALISTS

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The **Temp Sensor TS2** is an easy solution for ventilation or temperature control and integrates nicely with the CTI gas detection 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.
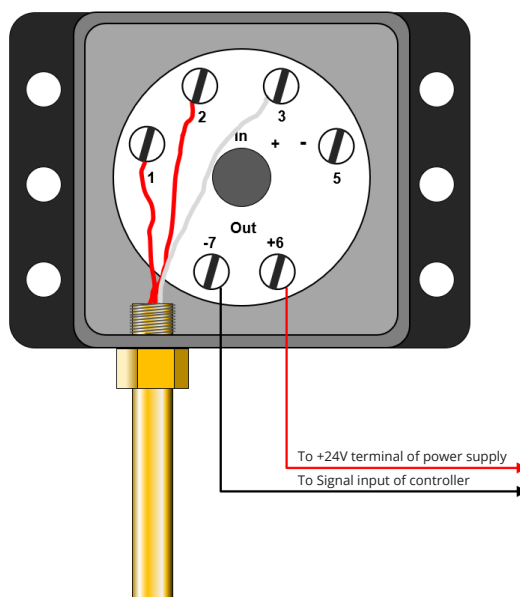
Installation Information

- 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

To +24V terminal of power supply
To Signal input of controller

SPECIFICATIONS

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, ≥ 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