

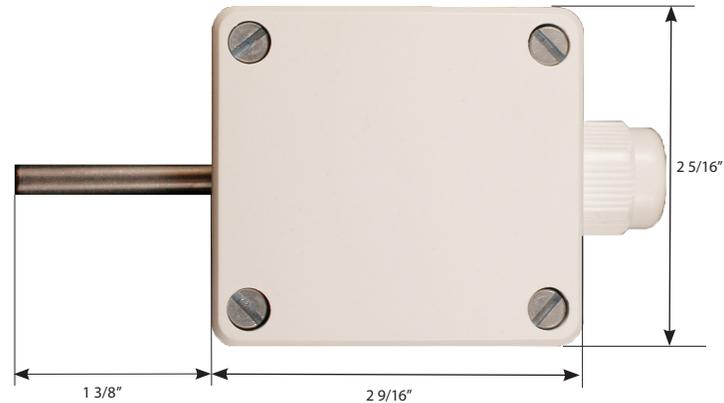


## Outdoor Temperature Sensor

Part No. 960-001-0012

### Key Features

- Compatible 0 - 10 V signal
- 3 point calibrated and linearized
- High long term stability
- Sensor housed in 316Ti grade stainless steel protection tube
- High quality IP 65 rated enclosure
- Integrated temperature sensor and voltage converter



### Operation

With its built-in surge protection, this temperature sensor is ideally suited to be used in a wide range of applications in our automation systems. In addition to that, this sensor will delivery very accurate readings for precise control.

The temperature is measured with a precise and long-term stable platinum thermistor that conforms to relevant industry standards. the non-linear reading of this platinum sensor is linearized using a second order polynomial according to DIN47115 guidelines. Following this signal processing the reading is represented as a 0 - 10 V signal, which conforms to common industry standards.

The sensor is mounted in a protective tube made of 316Ti grade stainless steel and is also suitable for measuring liquids or the installation in ventilation ducts, where condensation is likely. The electronics required for the signal processing are thermally isolated from the sensor platinum sensor to avoid any self-heating.

### Specifications

Operating range	-22 to 158F (-30 to 70C)
Sensor probe	Platinum thermistor (PT1000)
Accuracy	+/- 0.3C (from 0 - 50C)
CE Conformity	89/336/EEC
EMC Emissions	EN 61000-6-2:2001
Sensor tube	Grade 316Ti stainless steel
Electronic enclosure	Plastic (IP 65 rated)
Connection	Screw terminals 0.75mm <sup>2</sup>
Operating voltage	12 - 24 V DC
Surge protection	Varistor and RC-Filter
Cable length	20 feet (6 metres)
ROHS	Conforms

# Outdoor Temperature Sensor (continued)

## Installation

### Caution

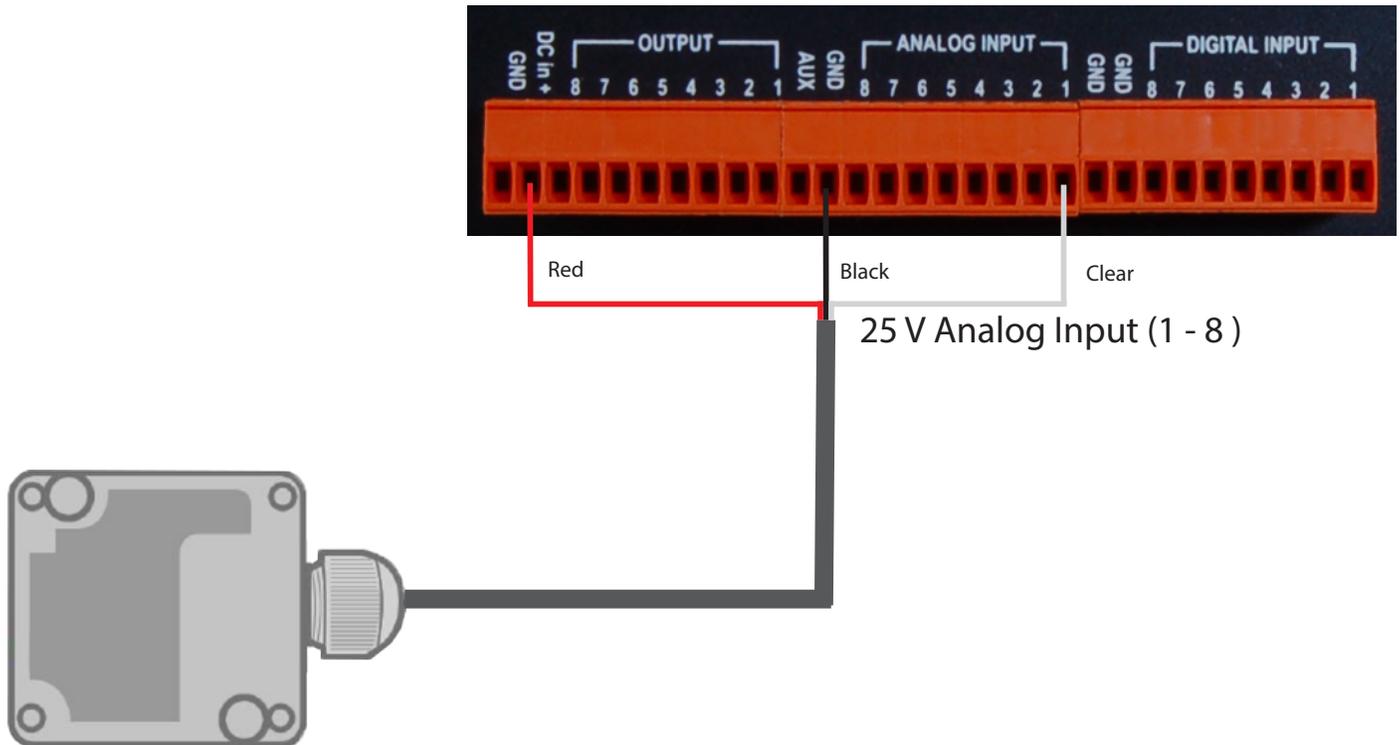
- Can cause electrical shock or equipment damage, disconnect the power supply before connecting the wiring.
- Do not connect the temperature sensor to a 0 - 5V analog input, as this may damage the siteRSM or siteCOMMANDER. This includes ANALOG INPUTS 9 through 24 and ANALOG INPUTS 1 through 8 with jumpers set to 0 - 5V.
- RF interference can cause erratic system operation, keep the wiring away from any RF equipment and cabling.

## siteVIEW Formula

Enter one of the formulas below into the siteVIEW Client software, to convert the analog input voltage to a temperature value to be displayed on the siteVIEW panel. Select Edit, Properties, Analog, Inputs tab to access the siteVIEW formulas.

Celsius	10*X-30
Fahrenheit	18*X-22

## siteRSM or siteCOMMANDER



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