The Savant® Remote Outdoor Temperature Sensor (SST-OTEMP1) is a Type-2 10KΩ Thermistor providing precision outdoor temperature sensing for Heating, Ventilation and Air Conditioning (HVAC) systems. The sensor is surface mounted and wired using 2-wire twisted pair or CAT-5 cable. Up to two SST-OTEMP1 sensors can be connected to a single SST-W100 Thermostat and up to sixteen sensors can be connected to a single CLI-8000/8000A 8-Zone Thermostat Processing Unit.

The SST-OTEMP1 is designed to integrate seamlessly into a Savant® controlled environment.
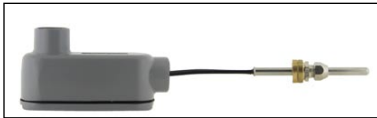
Box Contents

(1) SST-OTEMP1
(1) Quick Reference Guide (this document)

Related Components

SST-W100 - Savant® Wireless Thermostat
SST-TEMP1 - Savant® Remote Temperature Sensor
CLI-8000-XX - 8-Zone Thermostat Processing Unit
CLI-8000A-XX - 8-Zone Thermostat Processing Unit

SST-OTEMP1

SST-OTEMP1 with housing removed from sensor probe

Specifications

Environmental	
Temperature	-40°F to 248°F (-40°C to 120°C)
Cable Requirements	
CAT-5 (24 AWG)	500 ft (152.4 m) (maximum)
Sensor Wire length	18 in (45.72 cm)
Sensor Property	
Thermistor Accuracy	+/- 0.36°F (0.2°C)
Platinum RTD Accuracy	+/- 0.72°F (0.4°C)
Thermistor Range	-94°F to 302°F (-70°C to 150°C)
Platinum RTD Range	-328°F to 572°F (-200°C to 300°C)
Probe Material	Stainless Steel
Thermistor Style	10K ohm@77°F (25°C), Type 2
Cable Properties	FT4, 176°F (80°C), 600V
Compliance	
RoHS	Compliant

Installation Guidelines

The SST-OTEMP1 can be mounted on the outside of a building using the following guidelines:

- Choose a spot on the North side of the building away from direct sunlight for as much of the day as possible.
- Point the sensor downwards to avoid catching rain.
- The sensor enclosure has a female ½ inch NPT threaded fitting where the sensor exits the enclosure. A short length of ½ inch pipe or PVC can be screwed into the enclosure. This will protect the sensor from possible damage.
- Mount the sensor where it can be accessed for service.
- Mount sensor away from any exhaust ducts.

Installation Instructions

1. Drill a 3/4 inch (1.90 cm) hole through the wall.
2. Thread the wire from the sensor through the hole just drilled.
3. Fill hole just drilled with a generous amount of sealant or caulking.
4. Mount the sensor enclosure to the side of building with sensor pointing downward using suitable exterior grade self tapping screws.
5. Screw on the cover of the sensor enclosure. Verify the gasket to cover is seated correctly.
6. On the inside of wall, mount an electrical junction box close enough for wires to be able to extend into box. Sensor wire extends 18" (45.72 cm) from where wire exits the sensor enclosure.
7. Using appropriate sized wire nuts, connect the two wires from the sensor to the existing wiring connected to a Savant® related product (Wireless Thermostat, OLED Thermostat, CLI-8000\8000A).
8. Power on the Savant® equipment and verify sensor is working correctly.

Additional Information

For additional information related to Climate Control, refer to the **dealers.SavantSystems.com** dealer portal.

Knowledge Base > Savant Hardware > Climate Control

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1 of 1