

Flush Mount Room Temperature Sensor



Figure 1. Flush Mount Room Temperature Sensor.

Description

The Flush Mount Room Temperature Sensor from Siemens Building Technologies, Inc., provides accurate, reliable sensing of room temperature to the Siemens room controller products. The sensor's resistance varies proportionally to the actual room temperature being measured.

The sensor connects to the controller via a 6-wire cable terminated with a plug-in RJ-11 terminal or via a 2-wire pigtail connection (see Table 1). The cable transmits the temperature signal.

The Flush Mount Room Temperature Sensor incorporates a temperature-sensing element (10K Ohm thermistor, 100K Ohm thermistor, or 1000 Ohm RTD) which is thermally isolated from the cover. This room sensor is designed for those applications in which a Covered Room Temperature Sensor is not acceptable.

The tamper proof screws used to install the sensor protect the sensor from removal by unauthorized personnel. If desired after installation, the sensor can be painted to match the wall. The Flush Mount Room Temperature Sensor is designed to be mounted to a 2 x 4 electrical box. Sensors are available in beige and white.

Specifications

10k Ohm Thermistor

Temperature Range	
Operating	55°F to 95°F (13°C to 35°C)
Output Signal	
	Changing Resistance
Calibration Point Factory Setting	
	77°F (25°)
Accuracy	
	±0.5°F (±0.3°C)
Resistance Value	
	10k Ohm

100k Ohm Thermistor

Temperature Range	
Operating	20°F to 120°F (-7°C to 49°C)
Calibration Point	
	77°F (25°)
Accuracy	
	±0.36°F (±0.2°C)
Resistance Value	
	100k Ohm

1000 Ohm RTD

Temperature Range	
Operating	-40°F to 120°F (-40°C to 49°C)
Calibration Point	
	32°F (0°)
Accuracy	
	±0.12°F (±0.1%°C)
Resistance Value	
	1k Ohm
Calibration Adjustments	
	None Required
Dimensions	
	4-1/2" H x 2-3/4" W x 1-1/36" D (114 mm x 70 mm x 27 mm)

Table 1. Flush Mount Room Temperature Sensor

Sensor Type	Connection Type	Blank Cover
Flush Mount (Desert Beige)		
10K Ohm	RJ-11	540-520 ¹
10K Ohm (Staefa compatible)	Pigtail	536-994B
100K Ohm	Pigtail	536-784 ¹
1000 Ohm	Pigtail	544-374 ¹

¹Add letter suffix to indicate desired color. A=Desert Beige; B=White.

Table 2. Accessory and Tool Part Numbers

Part Number	Description	Package Quantity
182-683	Drywall Rough-in Kit	5
192-506	Electrical Box (2 x 4) Adapter Plate Kit	5
192-507	Electrical Box (2 x 4) Adapter Base	5
192-307 ²	Adapter Base	1
192-308 ²	Adapter Frame	1
536-077	Dry Wall Mounting Hole Saw	1
540-538	Flush Mount Sensor Guard Kit	1

²Add "W" for White.

Information in this document is based on specifications believed correct at the time of publication. The right is reserved to make changes as design improvements are introduced. © 2003 Siemens Building Technologies, Inc.