S/S Room Temperature Sensor

Installation Instructions



INTRODUCTION

The room temperature sensor series is a single gang, blank stainless steel wall plate that incorporates a precision temperature sensor used to monitor room temperature with various thermisors available.

BEFORE INSTALLATION

Read these instructions carefully before installing and commissioning the temperature sensor. Failure to follow these instructions may result in product damage. Do not use in an explosive or hazardous environment, with combustible or flammable gases, as a safety or emergency stop device or in any other application where failure of the product could result in personal injury. **Take electrostatic discharge precautions during installation and do not exceed the device ratings.**

MOUNTING

The plate sensor installs directly on a standard electrical box and should be mounted five feet from the floor of the area to be controlled. Do not mount the sensor near doors, opening windows, supply air diffusers or other known air disturbances. Avoid areas where the sensor is exposed to vibrations or rapid temperature changes.



MOUNTING CONTINUED

Once wiring is complete, secure the plate to the junction box using the supplied mounting screws as shown in Figure 4.



SPECIFICATION:

Thermistors: 1801 Ω, 3K, 10K (type 2 & 3),
20K & 100K, IC Sensors
Ni RTD's: 100 Ω, 1K PT, 1K Ω
-20 to 70°C (-4 to 158°F)
Stainless steel - IP50 (NEMA 1)
. 115 mm L x 70.6 mm W x 4.3 mm D
(4.53" x 2.78" x 0.17")
Canada

TYPICAL WIRE RESISTANCE VALUES

When using low resistance sensors, long wire runs can add significant error to the readings. Use the following chart to determine errors due to wire resistance or consider using a transmitter for better accuracy. Locate the type of wire being used. Multiply the total length of the wire (distance from the controller to the sensor and back) by the number found in the chart below for total resistance.

GAUGE WIRE TYPE	18 AWG	22 AWG	24 AWG
STRANDED (OHMS/FOOT)	5.85 mΩ	14.75 mΩ	23.29 mΩ
SOLID (OHMS/FOOT)	6.4 mΩ	15.85 mΩ	25.72 mΩ

DIMENSIONS



