

Outdoor Temperature Sensor Installation Instructions

Description

Novar's Outdoor Temperature Sensor (OTS/2) is a precision electronic sensor/transducer in a rugged, weatherproof industrial enclosure. The solid state sensing element is surrounded by a metal shield for physical protection and to protect it from radiant heating.

The sensor is equipped with a 20-foot shielded cable. No connections are made inside the enclosure. Additional shielded cable (up to 1000 feet) can be spliced onto the cable without affecting operation of the unit.

The Outdoor Temperature Sensor is specifically designed for use with the Logic One[®] EP/2 and Savvy[®] executive modules.

Specifications

Range

Temperatures: -40 to 120 F

Output

4 to 20 mA

Resolution

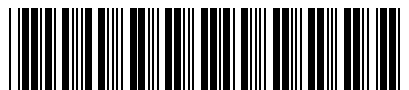
1 F

Mounting the Sensor

The sensor must be installed on the north face of an exterior wall (preferably under an overhang) where it can accurately measure outdoor air temperature. It must be located away from sunlight and other forms of radiant heat and should be mounted with the sensing device pointing down.

The following procedure should be used to mount the sensor.

Step	Procedure
1	Place the sensor against the mounting surface and mark the location of the four mounting holes (Figure 1).
2	Drill the holes for the mounting screws in the locations marked.
3	Position the sensor over the holes, insert screws (not included), and tighten to secure the sensor.



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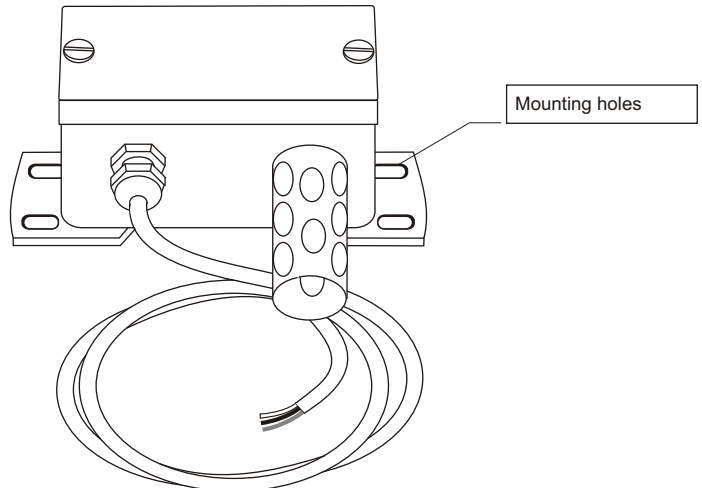


Figure 1. Outdoor Temperature Sensor

Wiring the Sensor

If the cable supplied with the unit is not long enough to reach the executive module, splice on additional cable (Novar WIR-1010 or Belden #8761 equivalent is recommended).

The following procedure should be used to connect the cable to the terminals labeled Outdoor Temperature Sensor on the EP/2. Wiring instructions for connecting the sensor to the Savvy are provided in the *Savvy Baseplate Installation Instructions*

Step	Procedure
1	Connect the black wire to Terminal 3 (-).
2	Connect the white wire to Terminal 4 (+).

NOTE! Although the OTS/2 is provided with a shielded cable, only the plus and minus terminals need to be connected on the EP/2 or Savvy terminal strip.

Checking the Installation

On an EP/2, the sensor's operation can be checked by observing the outdoor temperature display on the EP/2. For a Savvy, it can be checked via a connection with a computer workstation equipped with Novar's software.

If the sensor is not functioning properly (or if the outdoor air temperature is beyond the sensor's measuring range), the display shows the default temperature that is defined in Novar's software.

Model and Part Numbers

The part number shown in Table 1 should be used to order the Novar part.

PRODUCT	MODEL NO.	PART NO.
Outdoor Temperature Sensor (EP/2 or Savvy)	OTS/2	735070000

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