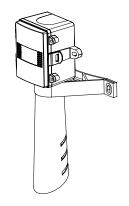
Outside Air Temperature Transmitter

Installation Instructions



INTRODUCTION

The single point outside air temperature transmitter utilizes a precision sensor. All probes are constructed to provide excellent heat transfer, fast response and are potted to resist moisture penetration. A sun and wind shield is integrated into a weatherproof compact Polycarbonate enclosure with a hinged and gasketed cover for ease of installation.

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. **Do not exceed the device ratings**.

MOUNTING

Select a suitable mounting spot on an exterior wall where the sensor is best protected from direct exposure to sunlight, wind, etc. preferably on a north facing wall. Do not mount the sensor near opening windows, supply/exhaust air louvres or other known air disturbances. Avoid areas where the sensor is exposed to vibrations or rapid temperature changes.

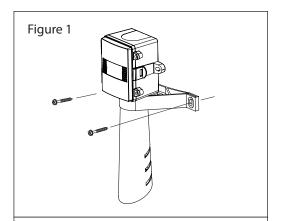
The sensor installs directly on an exterior wall using the two mounting holes provided on the mounting bracket. Select the best mounting technique based on the exterior wall material. The two mounting holes are suitable for a #10 size screw (not supplied). The sensor hub must be pointing down. See Figure 1.

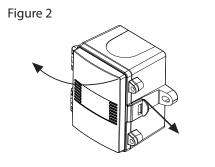
The enclosure has a hinged cover with a latch. Open the cover by pulling slightly on the latch on the right side of the enclosure. At the same time pulling on the cover, as illustrated in Figure 2.

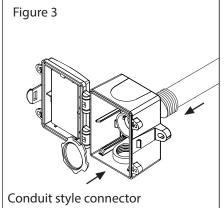
The sensor provides a connection hole for 22.7 mm (0.895") conduit on the back side of enclosure. Run a length of conduit through exterior wall and seal. Feed conduit through the provided hole in the back of the enclosure and secure with a lock nut as show in Figure 3. It is recommended that weatherproof conduit or cable gland fittings be used. On devices that include a cable gland connector, slide wire through the connector and tighten, as shown in Figure 4.

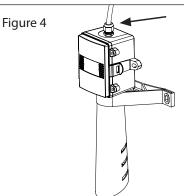
Make wiring connections as per the "wiring" illustrations on Page 2.

Swing door closed until securely latched. For added security, two screws are provided that may be installed in the integrated screw tabs. See Figure 4.

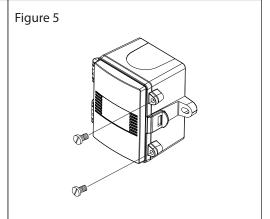








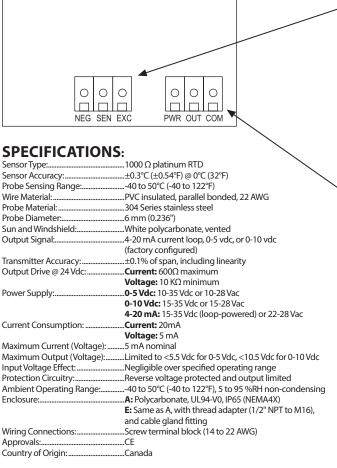




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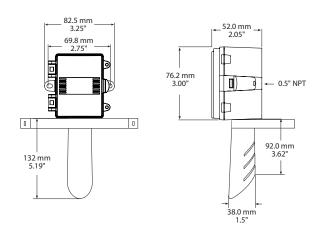
WIRING

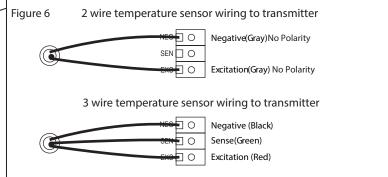
- Deactivate the 24 Vac/dc power supply until all connections are made to the device to prevent equipment damage.
- Use 14-22 AWG shielded wiring for all connections and do not locate the device wires in the same conduit with wiring used to supply inductive loads such as motors. Make all connections in accordance with national and local codes.
- The temperature transmitter comes with the temperature sensor pre-wired to the transmitter board. If removal is required for installation then it may be re-wired as shown in Figure 6.
- Pull at least six inches of control wire into the enclosure, then complete the wiring connection according to the wire diagram for the applicable power supply and output signal type as shown in Figure 7.
- Connect the DC positive or the AC voltage hot side to the PWR terminal. For voltage output or AC power, the supply Common is connected to the COM terminal. The device is reverse voltage protected and will not operate if connected backwards. It has a half-wave power supply so the supply Common is the same as the signal Common. See Figure 7.
- The analog output is available on the OUT terminal. Check the controller Analog Input to determine the proper connection before applying power as shown in Figure 7.
- Once all connections are made and checked, power can be applied.

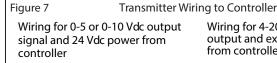


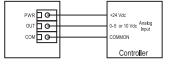
^{*}This product is factory calibrated and any field adjustment will void the warranty.

DIMENSIONS

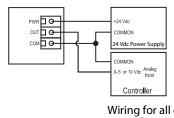




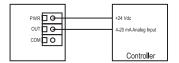




Wiring for 0-5 or 0-10 Vdc output signal and with external 24 Vdc power supply

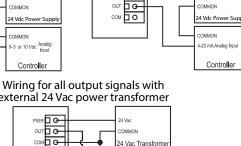


Wiring for 4-20 mA loop-powered output and external 24 Vdc power from controller



Wiring for 4-20 mA loop-powered output and external 24 Vdc power supply

+24 Vdc



БΘ

external 24 Vac power transformer

PWR OUT O COMMON 24 Vac Transformer

COMMON Analog Input
Controller

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