



Specifications

Accuracy	+/- 2,3,5% RH / +/- 0.1% FSO (Temp)
Power Supply	24Vac/dc
Wiring Connections	Screw connectors (18 – 24 awg)
Output (factory configured)	4-20mA, 0-5, 0-10 Vdc (Scaled 0-100%)
Operating Temp	0-70 °C

Electrical Connection

Relative Humidity Transmitter

The Relative Humidity transmitter uses a capacitive type humidity sensor and temperature compensation for reliable, accurate readings.

NOTE: The humidity sensor used in these devices is static sensitive. Anti-static precautions should be followed during installation to prevent damage to the sensor.

Mounting

Unit should be mounted away from any supply air exhausts or other sources of heat or cold. Mount the unit to an electrical box on an inside wall approximately 3 to 5 feet from the floor.

The transmitter should be connected to the controller using 18 to 22 AWG wire. They require four wires (power, common, RH and Temperature output signals) for voltage and AC operation while only three wires (power, RH and Temperature output signals) are required for DC 4-20mA loop-powered operation. The use of shielded cable is optional but recommended for the highest noise immunity. Do not route signal wires in the same conduit with power cables as signal degradation may occur. The controller Analog Input (AI) must be selected to match the transmitter output before power is applied. The AI type must be a high impedance voltage input for use with 0-5 or 0-10 Vdc transmitters, or a current input with 250 or 500 ohm impedance. All transmitters have an operating range of 0 - 70 °C (32 – 158 °F). The transmitter board should not be mounted where temperatures will exceed these values. See the connection diagram for more details.

WIRE CONNECTIONS FOR RH/TEMP COMBINATION BOARDS

