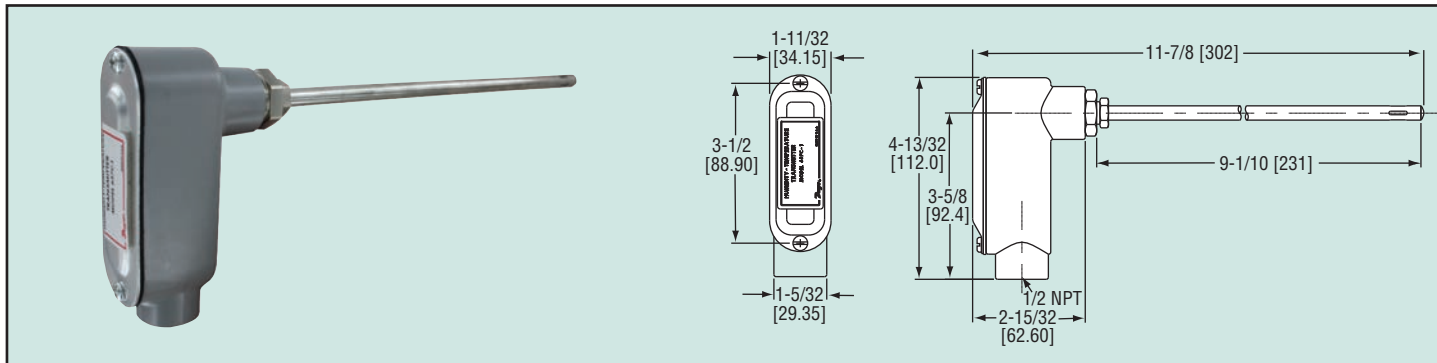




Model
657C-1

Relative Humidity/Temperature Transmitter

Dual Channel Design for Simultaneous 4 to 20 mA Output Signals — Conduit Housing



The **Model 657C-1 Transmitter** features the same circuit design as the 657-1 providing two 4 to 20 mA channels to produce separate output signals for both relative humidity and temperature. However, this model is housed in a tough die cast aluminum protective conduit enclosure with gasketed cover. An internal terminal block is provided for electrical connections. The sensor employed in the 657C-1 features a state-of-the-art integrated polymer film humidity sensor and a thin-film platinum temperature sensor to assure high reliability and rock-solid stability over years of continuous service. Stainless steel probe measures 5/16" x 9-1/10" (0.8 x 23.1 cm) and can be easily mounted to most ductwork using either of the two optional kits below.

Model 657C-1, RH/Temperature Transmitter

OPTION

For NIST traceable calibration certificate (Humidity), add suffix -NIST to model numbers. Example: 657C-1-NIST.

SPECIFICATIONS

Service: Humidity & temperature detection in air.

Range: Relative humidity: 0 to 100%; Temperature: 32 to 212°F (0 to 100°C).

Accuracy: Relative humidity: $\pm 2\%$ (10 to 90% RH), $\pm 3\%$ (0 to 10% and 90 to 100% RH); Temperature: $\pm 1^\circ\text{F}$ (0.5°C).

Temperature Limits: 32 to 140°F (0 to 60°C).

Pressure Limits: 1 psi (.07 bar).

Compensated Temperature Range: 32 to 140°F (0 to 60°C).

Power Requirements: 10 to 35 VDC.

Output Signal: 2 channels each 4 to 20 mA. Loop powered on the RH channel.

Electrical Connections: 4 screw type terminal.

Mounting Orientation: Mount in any position.

Probe: 5/16" x 9-1/10" (0.8 x 23.1 cm) stainless steel.

Weight: 10 oz (284 g).