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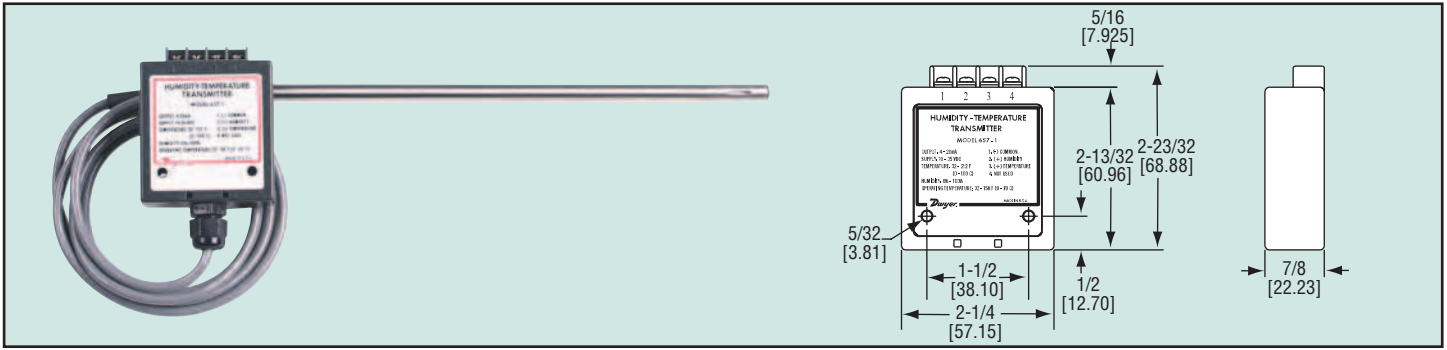
Model 657-1

Relative Humidity/Temperature Transmitter

Dual Channel Design for Simultaneous 4-20 mA Output Signals



The Model 657-1 Transmitter provides two 4-20 mA channels to produce separate output signals for both relative humidity and temperature. This inexpensive device delivers ±2% accuracy for humidity and ±1°F for temperature measurements. The sensor employed in the 657-1 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 10˝ (0.8 x 24.4 cm) and can be easily mounted to most ductwork using either of the two optional kits below.

Model 657-1, RH/Temperature Transmitter

ACCESSORIES

A-158, Split Flange Mounting Kit

A-159, Duct Mounting Gland

SPECIFICATIONS

Service: Humidity & temperature detection in air.

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

Accuracy: Relative humidity: ±2% (10-90% RH), ±3% (0-10% and 90-100% RH); Temperature: ±1ºF (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: 10-35 VDC.

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

Electrical Connections: 4 screw type terminal.

Mounting Orientation: Mount in any position.

Probe: 5/16˝ x 10˝ (0.8 x 25.4 cm) stainless steel.

Weight: 5.5 oz (156 g).

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