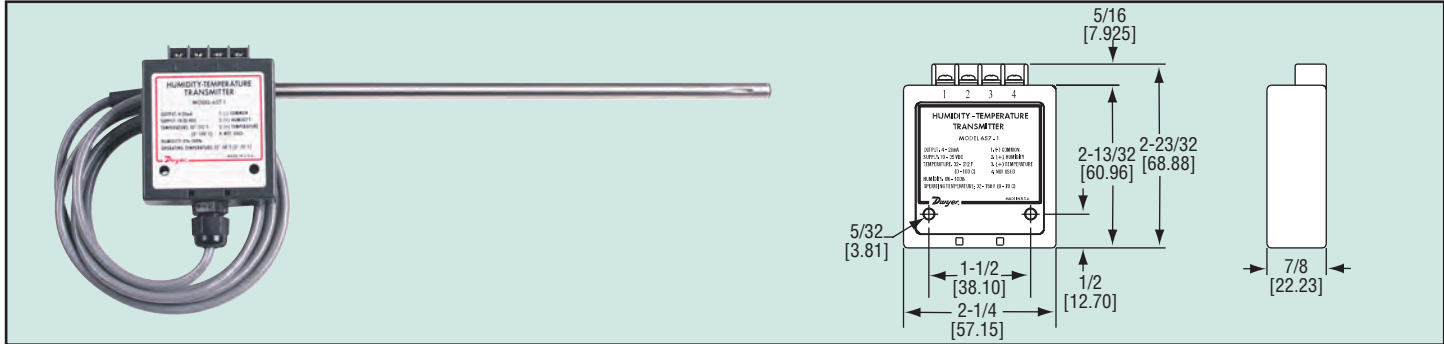




Model  
657-1

# 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  $\pm 2\%$  accuracy for humidity and  $\pm 1^\circ\text{F}$  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  $5/16" \times 10"$  (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 100°C).

**Accuracy:** Relative humidity:  $\pm 2\%$  (10-90% RH),  $\pm 3\%$  (0-10% and 90-100% 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:** 10-35 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:**  $5/16" \times 10"$  (0.8 x 25.4 cm) stainless steel.

**Weight:** 5.5 oz (156 g).