The Model 657-1 Transmitter provides two 4 to 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 25.4 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 to 100%; Temperature: 32 to 212°F (0 to 100°C).

**Accuracy:**
- Relative humidity: ±2% (10 to 90% RH), ±3% (0 to 10% and 90 to 100% RH);
- Temperature: ±1°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 10” (0.8 x 25.4 cm) stainless steel.

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

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**

**ACCESSORIES**
- A-158, Split Flange Mounting Kit
- A-159, Duct Mounting Gland

### 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: ±2% (10 to 90% RH), ±3% (0 to 10% and 90 to 100% RH);
- Temperature: ±1°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 10” (0.8 x 23.1 cm) stainless steel.

**Weight:**
- 10 oz (284 g).

OPTION

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