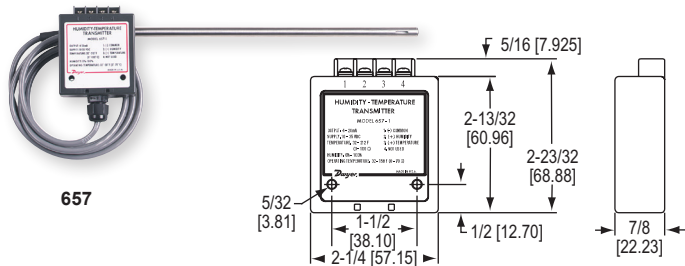
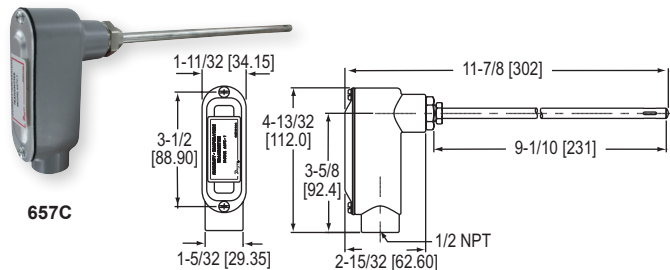


# RELATIVE HUMIDITY/TEMPERATURE TRANSMITTERS

Dual Channel Design for Simultaneous 4-20 mA Output Signals



657



657C

The **Series 657 Relative Humidity/Temperature Transmitters** provide two 4-20 mA channels to produce separate output signals for both relative humidity and temperature. These devices deliver  $\pm 2\%$  accuracy for humidity and  $\pm 1^\circ\text{F}$  for temperature measurements. Stainless steel probe can be easily mounted to most ductwork using either of the two optional kits below.

**FEATURES/BENEFITS**

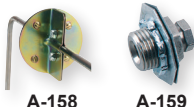
- Polymer film humidity and thin film RTD temperature sensors offer highly reliable and stable measurements.
- Remote mount housing offers installation flexibility (657-1)
- Rugged die-cast aluminum housing is great for industrial applications (657C-1)

**APPLICATIONS**

- Cleanroom monitoring
- HVAC/building control monitoring

MODEL CHART	
Model	Description
657-1	RH/temperature transmitter
657C-1	RH/temperature transmitter - conduit housing

ACCESSORIES	
Model	Description
A-158	Split flange
A-159	Mounting gland



**SPECIFICATIONS**

**Service:** Dry clean 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:** 10-35 VDC.  
**Output Signal:** 2 channels each 4-20 mA. Loop powered on the RH channel.  
**Electrical Connections:** 4 screw type terminals.  
**Mounting Orientation:** Mount in any position.  
**Probe:** 657-1: Stainless steel 5/16" x 10" (0.8 x 25.4 cm); 657C-1: 5/16" x 9-1/10" (0.8 x 23.1 cm).  
**Weight:** 657-1: 5.5 oz (156 g); 657C-1: 10 oz (284 g).

OPTIONS	
To order add suffix:	Description
-NIST	NIST traceable humidity calibration certificate
<b>Example:</b> 657C-1-NIST	