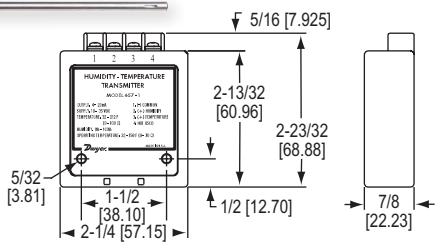
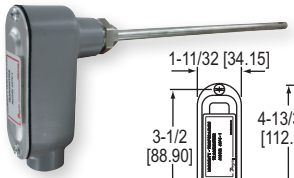
SERIES 657

RELATIVE HUMIDITY/TEMPERATURE TRANSMITTER

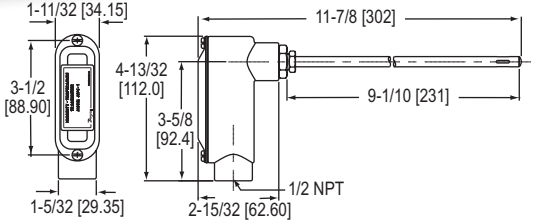
Dual Channel Design for Simultaneous 4 to 20 mA Output Signals

657





657C



The **SERIES 657** Transmitters provide two 4 to 20 mA channels to produce separate output signals for both relative humidity and temperature. These devices deliver ±2% accuracy for humidity and ±1°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

A-158

A-159

SPECIFICATIONS
Service: Dry clean 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 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
Example: 657C-1-NIST	