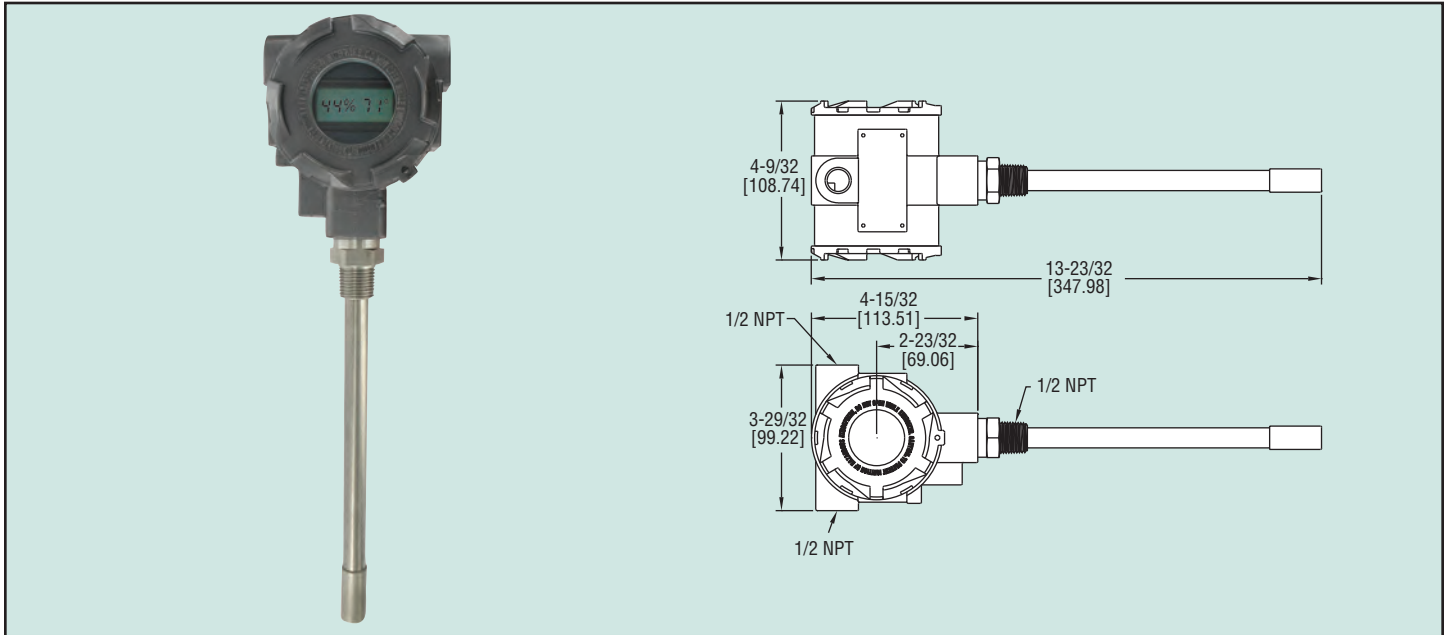




Series
HHT

Hazardous Area Humidity/ Temperature Transmitter

Intrinsically Safe or Explosion-Proof Models



The Series HHT Hazardous Area Humidity/Temperature Transmitter takes accurate measurements in the harshest of environments. The transmitter is offered in explosion-proof and intrinsically-safe versions depending on the application's requirements. The explosion-proof model is offered with 4 to 20 mA output for humidity only. The intrinsically-safe version is offered with 4 to 20 mA output for humidity and temperature. Both versions have an optional two line alphanumeric display to show the current humidity and temperature. The Series HHT humidity/temperature transmitter is excellent for offshore HVAC applications, dust and grain applications. Intrinsically safe models require an intrinsically safe barrier.

Model	Protection	Description	Display
HHT-EU	Explosion-Proof	Humidity	No
HHT-IU	Intrinsically Safe	Humidity	No
HHT-IT	Intrinsically Safe	Humidity/Temperature	No
HHT-EU-LCD	Explosion-Proof	Humidity	Yes
HHT-IT-LCD	Intrinsically Safe	Humidity/Temperature	Yes

ACCESSORIES

KFD0-SCS-EX1.55 (see page 391), Loop powered galvanic isolator
A-287, Mounting bracket for pipe or surface mounting
(Includes bracket and two 2" U-bolts)

SPECIFICATIONS

Relative Humidity Range: 0 to 100% RH.

Temperature Range: -40 to 140°F (-40 to 60°C).

Accuracy: ±2% 10 to 90% RH, ±0.9°F at 72°F (±0.3°C at 25°C).

Hysteresis: ±1%.

Repeatability: ±0.1% typical.

Temperature Limits: -40 to 140°F (-40 to 60°C).

Storage Temperature: -40 to 176°F (-40 to 80°C).

Compensated Temperature: -40 to 140°F (-40 to 60°C).

Power Requirements: For intrinsically safe models HHT-IX, 9.5 to 28 VDC. For explosion-proof models HHT-EX, 16.5 to 28 VDC.

Output Signal: 4 to 20 mA, 2 channels for humidity/temperature models (loop power on RH).

Response Time: 15 seconds.

Electrical Connections: Screw terminal block.

Conduit Connection: 1/2 female NPT.

Drift: <1% RH/year.

RH Sensor: Capacitance polymer.

Temperature Sensor: Solid state band gap.

Housing Material: Aluminum.

Display: Optional 2 line alpha numeric, 8 characters/line. Temperature display is °F/°C selectable.

Display Resolution: RH: 0.1%; Temperature 0.1°F (0.1°C).

Weight: 2 lb 8 oz (1134 g).

Enclosure Rating: NEMA 4X (IP66). Models HHT-EX: FM Explosion-Proof, Class I Div. 1 Group B, C, D, Class II Div. 1 Group E, F, G, Class III Div. 1; Models HHT-IX: FM Intrinsically Safe, Class I Div. 1 Group A, B, C, D, Class II Div. 1 Group E, F, G, Class III Div. 1 T4.

Agency Approvals: CE, FM.

AIR QUALITY

Humidity/Temperature
Transmitters