



SERIES HHT



HAZARDOUS AREA HUMIDITY/TEMPERATURE TRANSMITTER

Intrinsically Safe or Explosion-Proof Models



Series HHT Hazardous Area Humidity/Temperature Transmitter takes accurate measurements in the harshest of environments. The explosion-proof model offered with 4-20 mA output for humidity only. The intrinsically safe version is offered with 4-20 mA output for humidity and temperature, and do require an intrinsically safe barrier to meet hazardous area approvals.

FEATURES/BENEFITS

FM approved explosion-proof and intrinsically safe models
Integral LCD option
Dual temperature and relative humidity output models

APPLICATIONS

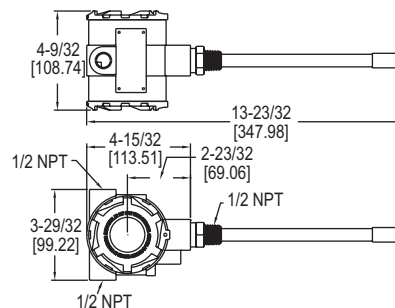
- Process monitoring
- Offshore HVAC monitoring
- Dust and grain handling

MODEL CHART

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

Model	Description
KFD0-SCS-EX1.55	Loop powered galvanic isolator
A-287	Mounting bracket for pipe or surface mounting (Includes bracket and two 2" U-bolts)
A-450	Replacement sintered filter

**SPECIFICATIONS**

Relative Humidity Range: 0 to 100% RH.
Temperature Range: -40 to 140°F (-40 to 60°C).
Accuracy: $\pm 2\%$ 10 to 90% RH, $\pm 0.9^\circ\text{F}$ at 72°F ($\pm 0.3^\circ\text{C}$ at 25°C).
Hysteresis: $\pm 1\%$.
Repeatability: $\pm 0.1\%$ 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, 9.5-28 VDC. For explosion-proof models HHT-EX, 16.5-28 VDC.
Output Signal: 4-20 mA, 2 channels for humidity/temperature models (loop power on RH).
Response Time: 15 s.
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 $^\circ\text{F}/^\circ\text{C}$ 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.

See page 366 (Model KFD0)

