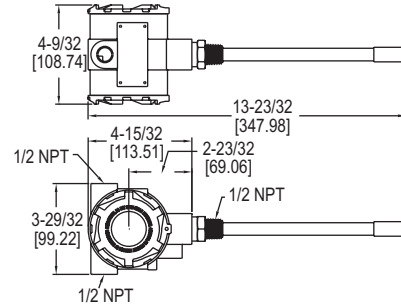


# HAZARDOUS AREA HUMIDITY/TEMPERATURE TRANSMITTER

## Intrinsically Safe or Explosion-Proof Models



The **Series HHT Hazardous Area Humidity/Temperature Transmitter** takes accurate measurements in the harshest of environments. The explosion-proof model is 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● A-287	Loop powered galvanic isolator 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:** ±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, 9.5-28 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 °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.

● See page 366 (Model KFD0)