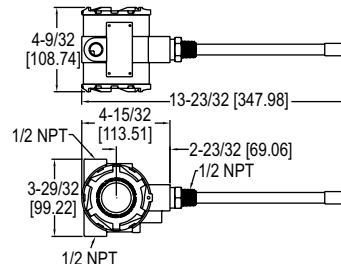


Dwyer
SERIES HHT



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 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.

BENEFITS/FEATURES

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

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 77°F (±0.5°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).

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.

Weight: 2 lb 8 oz (1134 g).

Compliance: CE, FM.

● See page 366 (Model KFD0)