



Hazardous Area Humidity/Temperature Transmitter

Intrinsically Safe or Explosion-Proof Models

Models Select Chart

Model	Description
HHT-EU	Explosion-proof humidity transmitter.
HHT-EU-LCD	Explosion-proof humidity transmitter with LCD display.
HHT-IT	Intrinsically safe humidity/temperature transmitter.
HHT-IT-LCD	Intrinsically safe humidity/temperature transmitter with LCD display.
HHT-IU	Intrinsically safe humidity transmitter.

Accessories

Model	Description
KFD0-SCS-EX1.55	Loop powered galvanic barrier for use with intrinsically safe transmitters.
A-287	Mounting bracket for pipe or surface mounting (includes bracket and two 2" U-bolts).
A-451	Replacement 2% sensor.
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 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 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	:	FM, CE.