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.

### SPECIFICATIONS

- **Relative Humidity Range:** 0 to 100% RH.
- **Temperature Range:** -40 to 140°F (-40 to 60°C).
- **Accuracy:** ±2% 10-90% 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:** 4-20 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).
- **Agency Approvals:** FM, CE.

### ACCESSORIES

- **KFDO-SCS-EX1.55 (see page 388),** Loop powered galvanic isolator
- **A-287,** Mounting bracket for pipe or surface mounting
  (Includes bracket and two 2” U-bolts)

### Model and Protection

<table>
<thead>
<tr>
<th>Model</th>
<th>Protection</th>
<th>Description</th>
<th>Display</th>
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<tbody>
<tr>
<td>HHT-EU</td>
<td>Explosion-Proof</td>
<td>Humidity</td>
<td>No</td>
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<tr>
<td>HHT-IU</td>
<td>Intrinsically Safe</td>
<td>Humidity</td>
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<tr>
<td>HHT-IT</td>
<td>Intrinsically Safe</td>
<td>Humidity/Temperature</td>
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<tr>
<td>HHT-EU-LCD</td>
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