**HAZARDOUS AREA HUMIDITY/Temperature TRANSMITTER**

Intrinsically Safe or Explosion-Proof Models

*Series HHT*

The Series HHT Hazardous Area Humidity/Temperature Transmitter takes accurate measurements in the harshest of environments. 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, 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

**SERIES CDWP**

**CARBON DIOXIDE TRANSMITTER**

NDIR CO2 Sensor with Universal Outputs in an Industrial Housing

The Series CDWP Carbon Dioxide Transmitter accurately monitors the CO2 concentration in industrial and indoor environments to help achieve energy savings. For increased sensor life and accuracy, a single-beam dual-wavelength non-dispersive infrared (NDIR) sensor is used to eliminate light source aging effects. This sensing technology provides the highest level of accuracy compared to Automatic Baseline Correction methods, which can unintentionally shift the calibration based on CO2 levels and barometric pressure conditions.

**SPECIFICATIONS**
- Relative Humidity Range: 0 to 100% RH
- Temperature Range: -40 to 140°F (0 to 60°C)
- Accuracy: ±2% of 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

**ACCESSORIES**
- Model: KFD0-SCS-EX1.55
  - Description: Loop powered galvanic isolator
- Model: A-287
  - Description: Replacement sintered filter (Includes bracket and two 2˝ U-bolts)
- Model: A-450
  - Description: Suspended mount bracket

**SERIES HHT**

**Hazardous Area Humidity/Temperature Transmitter**

Intrinsically Safe or Explosion-Proof Models

For increased sensor life and accuracy, a single-beam dual-wavelength non-dispersive infrared (NDIR) sensor is used to eliminate light source aging effects. This sensing technology provides the highest level of accuracy compared to Automatic Baseline Correction methods, which can unintentionally shift the calibration based on CO2 levels and barometric pressure conditions.

**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.
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**FEATURES/BENEFITS**
- FM approved explosion-proof and intrinsically safe models.
- Integral LCD option.
- Dual temperature and relative humidity output models.

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

**MODEL CHART**

<table>
<thead>
<tr>
<th>Model</th>
<th>Protection</th>
<th>Description</th>
<th>Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHT-EU</td>
<td>Explosion-proof</td>
<td>Humidity</td>
<td>No</td>
</tr>
<tr>
<td>HHT-IU</td>
<td>Intrinsically safe</td>
<td>Humidity</td>
<td>No</td>
</tr>
<tr>
<td>HHT-IT</td>
<td>Intrinsically safe</td>
<td>Humidity/temperature</td>
<td>Yes</td>
</tr>
<tr>
<td>HHT-EU-LCD</td>
<td>Explosion-proof</td>
<td>Humidity</td>
<td>Yes</td>
</tr>
<tr>
<td>HHT-IT-LCD</td>
<td>Intrinsically safe</td>
<td>Humidity/temperature</td>
<td>Yes</td>
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**See page 400 (Model KFD0)**