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.

MODEL CHART

<table>
<thead>
<tr>
<th>Example</th>
<th>CDWP</th>
<th>-05</th>
<th>W</th>
<th>-M4</th>
<th>-FC</th>
<th>CDWP-05W-M4</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>02</td>
<td>05</td>
<td>10</td>
<td>W</td>
<td>H</td>
<td>Carbon dioxide transmitter</td>
<td>$350.00</td>
</tr>
<tr>
<td>Mounting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2000 PPM</td>
<td>-</td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>5000 PPM</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10000 PPM</td>
<td>-</td>
</tr>
</tbody>
</table>

ACCESSORIES

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-CDWP-L</td>
<td>Replacement lid with filter material</td>
<td>$25.00</td>
</tr>
<tr>
<td>A-CDWP-H</td>
<td>Suspended mount bracket</td>
<td>$15.00</td>
</tr>
</tbody>
</table>

SPECIFICATIONS

- Sensor: Single beam, dual-wavelength NDIR
- Range: CO₂: 0 to 2000, 0 to 5000, or 0 to 10000 ppm (depending on model)
- Accuracy: CO₂: ± 40 ppm ±2% of reading
- Temperature Dependence: ±8 ppm/°C at 1100 ppm
- Non-Linearity: 16 ppm
- Pressure Dependence: 0.13% of reading per mm of Hg
- Response Time: 300 s (T½)
- Temperature Limits: 32 to 122°F (0 to 100°C)

FEATURES/BENEFITS
- IP64 aluminum housing
- Gray finish tested to withstand 168 hour salt spray test
- Single-beam dual-wavelength sensor automatically corrects for aging effects
- Measures unfiltered light intensity directly and eliminates error from incorrect assumptions of gas concentration in theoretical logic assumption methods
- Universal outputs to work with any building management system

APPLICATIONS
- Animal husbandry
- Mechanical room
- Greenhouses

SERIES HHT
HAZARDOUS AREA HUMIDITY/TEMPERATURE TRANSMITTER
Intrinsically Safe or Explosion-Proof Models

The Series HHT Hazardous Area Humidity/Temperature Transmitter provides the highest level of accuracy compared to Automatic Baseline infrared (NDIR) sensor is used to eliminate light source aging effects. This sensing technology applies to humidity, temperature, and barometric pressure conditions.

FEATURES/BENEFITS
- Dust and grain handling
- Process monitoring
- Dual temperature and relative humidity output models

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)
- Repeatability: ±0.1% typical
- Temperature Limits: -40 to 140°F (-40 to 60°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

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

<table>
<thead>
<tr>
<th>Model</th>
<th>Protection</th>
<th>Description</th>
<th>Display</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>HHT-EU</td>
<td>Explosion-proof</td>
<td>Humidity</td>
<td>No</td>
<td>$860.00</td>
</tr>
<tr>
<td>HHT-IE</td>
<td>Intrinsically safe</td>
<td>Humidity</td>
<td>No</td>
<td>$652.00</td>
</tr>
<tr>
<td>HHT-IT</td>
<td>Intrinsically safe</td>
<td>Humidity/temperature</td>
<td>No</td>
<td>$633.00</td>
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<tr>
<td>HHT-EUCDWP</td>
<td>Explosion-proof</td>
<td>Humidity</td>
<td>Yes</td>
<td>$917.00</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>KFD0-SCS-EX1.55</td>
<td>Loop powered galvanic isolator</td>
<td>$509.00</td>
</tr>
<tr>
<td>A-287</td>
<td>Mounting bracket for pipe or surface mounting (Includes bracket and two 2” U-bolts)</td>
<td>$11.75</td>
</tr>
<tr>
<td>A-450</td>
<td>Replacement sintered filter</td>
<td>$8.00</td>
</tr>
</tbody>
</table>

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<td>Suspended mount bracket</td>
<td>$15.00</td>
</tr>
</tbody>
</table>

SPECIFICATIONS

- 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)
- Agency Approvals: CE, FM