Humidity Measurement: Generell overview

Available Features:
- Measurable Humidity between 0 to 100%RH
- Harsh Environment compatibility by filter option
- Performance: accuracy up to ±2%RH available
- Variety of different packaging styles available
- Technology: The sensors are based on a humidity sensitive capacitor.
- Combination Sensors available with
  - Humidity operating range: 0 to 100%RH
  - Temperature operating range: -40 to +125°C
  - Pressure operating range: 10 to 2000mBar

Product Types:

Humidity sensor components:
- Humidity and Temperature sensing modules
- filter option available
- Compact DFN package size (mm) 2.5x2.5x0.9
- Power supplys between 1.5 and 5.5V
- Wide operating ranges: - 0 to 100%RH -40 to 125°C
- High accuracy: up to ±2%RH up to ±0.2°C

Applications: HVACR Systems, Medical CPAP, Refrigerators, Security cameras Washer/Dryer

Humidity and temperature (NTC) probes

<table>
<thead>
<tr>
<th>Measuring</th>
<th>HM1500LF</th>
<th>HM1520LF</th>
<th>HTM2500LF</th>
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<tbody>
<tr>
<td>Humidity</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Temperature</td>
<td>✓</td>
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<tr>
<td>Operating conditions</td>
<td>Humidity</td>
<td>0 to 100%RH</td>
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<tr>
<td>Temperature</td>
<td>-40 to +60°C</td>
<td>-40 to +85°C</td>
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<tr>
<td>Calibration</td>
<td>Up to ±3%RH</td>
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</tbody>
</table>

Unique Features
- High reliability and long term stability
- designed for low Humidity applications
- Hermetic Housing

Applications: Medical, cabinets, process controll, industrial, Hygrostat, data loggers

Humidity and temperature (NTC) mini Modules

Applications: Humidity and temperature Plug and Play transducer for OEM demanding applications in HVACR, home appliance, printer and medical

Humidity/Temperature/Pressure Moduls:

Applications: Smart phones and Tablet PCs, HVAC applications, Weather stations, Printers, Home appliance and humidifiers, Low power engine and fuel cell monitoring