PCMini70
Relative Humidity and Temperature Mini Probe

The PCMini70 is a relative humidity mini probe based on the interchangeable Hygrosmart module.

Technical Specifications

**Performance**
- Measurement range (RH): 0–100% RH
- Measurement range (T): -30 to +85°C (-22 to +185°F)
- Accuracy at 23°C (73°F) Humidity: ±2% RH (5–95% RH)
- Accuracy at 23°C (73°F) Temperature: ±0.2°C (+0.36°F)
- Stability - RH Sensor: < ±1% RH/year
- Response time - RH Sensor: < 10 sec typical (for 90% of the step change)

**Electrical output/ input**
- Output signal (RH): 0-1 V
- Output signal (T): 3-wire 1/3 DIN Pt100 direct
- Supply voltage: 5 V DC ±5%
- Load resistance: R > 5K Ω
- Digital: CMOS compatible
- Current consumption: 1.5 mA max

**Operating conditions**
- Operating temperature Sensing element: -30 to +85°C (-22 to +185°F)
- Housing: -40 to +85°C (-40 to +185°F)
- Storage: -40 to +85°C (-40 to +185°F)

**Mechanical specification**
- Housing material: AISI 316
- Dimensions: L = 53mm, ø22mm (L = 2.08", ø0.86")
- Filter: AISI 316 Stainless steel mesh
- Weight: 65g (2.3oz)
- Electrical connections: Threaded nipple + nut

**Electrical Connections**

<table>
<thead>
<tr>
<th>Cable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>Pt100</td>
</tr>
<tr>
<td>White</td>
<td>- Common ground</td>
</tr>
<tr>
<td>White</td>
<td>- Supply Voltage V+</td>
</tr>
<tr>
<td>Black</td>
<td>0 V</td>
</tr>
<tr>
<td>Red</td>
<td>+5 V</td>
</tr>
<tr>
<td>Violet</td>
<td>Out V</td>
</tr>
<tr>
<td>Yellow</td>
<td>Out F</td>
</tr>
<tr>
<td></td>
<td>- Output RH (Volt)</td>
</tr>
<tr>
<td></td>
<td>- Output RH (freq)</td>
</tr>
</tbody>
</table>

Highlights
- Designed for OEM applications
- Based on the interchangeable Hygrosmart module
- Compact housing

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