PFMini72
Relative Humidity and Temperature Probe

PFMini72 relative humidity probes are equipped with the Hygrosmart relative humidity sensor/converter. This interchangeable module has miniaturized electronics and does not require recalibration.

Highlights
• Designed for meteorological applications
• Based on the interchangeable Hygrosmart module

Technical Specifications

Performance
Measurement range (RH) 0–100% RH
Measurement range (T) -20 to +80°C (-4 to +176°F)
Accuracy at 23°C (73°F) ≤±1.5% RH (5–95% RH)
Accuracy at 23°C (73°F) Pt100 direct: ±0.2°C
Temperature Voltage version: ±0.5°C
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) 0-1 V or 3-wire 1/3 DIN Pt100 direct
Supply voltage 6 to 32 V DC
Current consumption 2 mA max

Operating conditions
Operating temperature Probe -20 to +80°C (-4 to +176°F)
Housing -20 to +80°C (-4 to +176°F)
Storage -40 to +85°C (-40 to +185°F)

Mechanical specification
Ingress protection IP65 (NEMA 4 level)
Housing material 316L
Dimensions L=92mm, ø18mm (L=3.62”, ø0.70”)
Weight 150g (5.29oz)
Electrical connections 4- or 6-wire output cable, length 2m (6.5’)

Electrical Connections

<table>
<thead>
<tr>
<th>4 wire cable</th>
<th>6 wire cable</th>
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<tbody>
<tr>
<td>White</td>
<td>White</td>
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<tr>
<td>Black</td>
<td>Black</td>
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<tr>
<td>Red</td>
<td>Red</td>
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<td>Blue</td>
<td>Blue</td>
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<td></td>
<td>Yellow</td>
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<td></td>
<td>Green</td>
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</tbody>
</table>

White       Output RH +
Black       Common ground
Red         Power supply V+
Blue        Output temperature +

White       Output RH +
Black       Common ground
Red         Power supply V+
Blue        Pt100
Yellow      Green

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Please note: Michell Instruments adopts a continuous development program which sometimes necessitates specification changes without notice. Please contact us for latest version.
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