



Air Temperature & Relative Humidity Probe Model MP-101

P/N: RT-101

The **Model MP101** is a combined relative humidity and air temperature sensor that can calculate dew point and is designed for outdoor applications. Operation from a DC voltage with low power consumption with no warm-up time makes the **MP101** particularly suitable for operation at remote locations. **MP101** is provided with a naturally aspirated **Solar Shield & Mount P/N RT-104-MPS**. The **MP101** can be used over long periods of time without any maintenance or recalibration.

Specifications

Humidity

Sensor: Rotronic HYGROMER HT-1
Measurement Range: 0-100% RH
Output Signal: 0-1.0 VDC = 0-100%RH (linear)
Accuracy: $\pm 0.8\%$ RH
Stability: $< 1\%$ over 1 year.

Temperature

Sensor: Pt100 1/3 Class B
Measurement Range: -50° to $+100^{\circ}\text{C}$
Output Signal: $-0.4 \dots +0.6$ VDC = $-40^{\circ} \dots +60^{\circ}\text{C}$ (linear)
Accuracy: $\pm 0.2^{\circ}\text{C}$

Electrical Characteristics

Supply Voltage: 3.3 to 5 VDC
Current Consumption: 4.5 mA @ 3.3 VDC
Response Time: 15 seconds

Physical

Weight: 70g
Dimensions: 108mm x 15mm dia.



**Solar Shield & Mount
P/N RT-104-MPS**