



Microcom Design, Inc.

## Air Temperature & Relative Humidity Model MP-101

P/N: RT-101



The **Model MP101** is a combined relative humidity and air temperature sensor 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. Energizing of the probe is required for only 0.25 seconds during each measurement. The **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 Hygrometer C94  
**Measurement Range:** 0-100% RH  
**Output Signal:** 0-1.0 VDC = 0-100%RH (linear)  
**Accuracy:**  $\pm 1.0\%$  RH  
**Repeatability:** 0.3% RH  
**Stability:** 1% over 1 yr.

#### Temperature

**Sensor:** Pt100 RTD  
**Measurement Range:**  $-40^{\circ}$  to  $+60^{\circ}$  C  
**Storage limits:**  $-50^{\circ}$  to  $+70^{\circ}$  C  
**Output Signal:**  $-0.4$ .... $+0.6$  VDC =  $-40^{\circ}$ .... $+60^{\circ}$  C (linear)  
**Accuracy:**  $\pm 0.2^{\circ}$  C  
**Repeatability:**  $\pm 0.1^{\circ}$  C

#### Electrical Characteristics

**Supply Voltage:** 4.8-30.0 VDC  
**Current Consumption:** <10mA  
**Response Time:** 10 seconds

#### Physical

**Weight:** 70g  
**Dimensions:** 200mm x 25mm dia.



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

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