

# VP-3 Temperature & Relative Humidity Sensor

**The VP-3 Temperature and Relative Humidity sensor** is an advanced yet affordable sensor for meteorological measurements. The VP-3 has a unique Teflon screen which protects the sensor from liquid water and dust without limiting the diffusion of water vapour. The protected sensor quickly responds to changes in humidity.

Accurate relative humidity readings require accurate air temperature taken at the same place and time. The VP-3 takes both measurements simultaneously for the best possible accuracy.

The included radiation shield is designed to improve air temperature readings by minimizing radiation and maximizing airflow over the surface of the sensor.



**Solutions for soil, plant & environmental monitoring**

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# VP-3 Specifications

<b>HUMIDITY RESOLUTION:</b>	0.1% RH
<b>TEMPERATURE RESOLUTION:</b>	0.1°C
<b>VAPOR PRESSURE RESOLUTION:</b>	0.01 kPa
<b>HUMIDITY RANGE:</b>	0 - 100% RH
<b>TEMPERATURE RANGE:</b>	- 40°C to 80°C
<b>VAPOR PRESSURE RANGE:</b>	0 - 47 kPa
<b>SENSOR TYPE:</b>	Digital Capacitance and Thermistor
<b>OUTPUT:</b>	RS232, SDI-12
<b>OPERATING ENVIRONMENT:</b>	- 40°C to 80°C
<b>CABLE LENGTH:</b>	5 meters
<b>CABLE CONNECTOR TYPES:</b>	3.5 mm "stereo" plug or three-wire
<b>POWER REQUIREMENTS:</b>	3.6-15 VDC, 0.03 mA quiescent, 4 mA during 300 ms
<b>SENSOR DIMENSIONS:</b>	5.4 cm x 1.96 cm
<b>RADIATION SHIELD DIMENSIONS:</b>	8.9 cm height, 10.16 cm diameter, 13.34 cm wide (bracket)
<b>DATA LOGGER COMPATIBILITY:</b>	Em50 series (firmware 2.11 or newer), ProCheck C (Rev 1.5), SDI-12 capable loggers
<b>WARRANTY:</b>	One year, parts and labour



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