

Inverter companies worldwide have chosen RainWise as the #1 provider of meteorological stations for our proven reliablity, easy deployment and accurate data. Why?

Performance Benefits

- EKO precision solar sensors for efficient monitoring
- Operates over a broad range of temperature
- Easy set-up & fully assembled

Tested Tough

- Durable & weather resistant Ultra-violet inhibited
- Stainless steel hardware Optional add-on sensors

Multiple Communication Protocols

- SunSpec certified or compliant
- Integration via MODBUS RTU interface using RS-485



SPECSHEET PVmet 500

Power Requirements 10 to 30 VDC at 50mA

Operating Environment

Temperature: - 40° to 60°C (- 40° to 140°F)
Relative Humidity: 0-100%, Condensing

Solar Irradiance Sensor Capabilities

Silicon Diode Thermopile Reference Cell

Resolution:

Sensitivity: Down to 5uV per W/m²

Analog Input: 0 to +/-2.5V Update Rate: 1Hz Resolution: 1W/m²

Ambient Air Temperature Sensor

Range: -40° to 80° C (-40° to 176° F) Accuracy: $+/-0.3^\circ$ C ($.54^\circ$ F) Thermal Time Constant: 30 sec.

Ultra Sonic Anemometer

 Speed
 Range:
 0.25-45 m/s (0.56 -100 MPH)

 Sensitivity:
 0.13 m/s (0.29 MPH)

 Direction
 Range:
 Range: 0-359°

Sensitivity: +/- 1°
Independent of weather conditions
Resolution: 0.1 m/s Resolution: 1°

Back of Module (BOM) Temperature Sensors

Range: - 40° to 80°C(- 40° to 176°F)
Accuracy: +/- 0.3°C (.54°F)
Thermal Time Constant: 270 sec.
Cable Length: 7.62m (25 ft)
Resolution: 0.1°C

Materials

Polyvinyl Chloride, Acrylonitrile Butadiene Styrene, Stainless Steel, Anodized Aluminum, Lexan®, Makrolon® 2658

RS-485 Serial Port

Mode: 2-Wire Half Duplex

Baud Rate: 9600, 19.2k Termination: Selectable

Electronics

Lead-free RoHS Compliant

Physical

Packaged Dimensions: 73.99cm x 35.56cm x 20.32cm (29" x 14" x 8") Packaged Weight: 3.17 kg (7 lbs.)





