

## Specifications

## AgroMET (MKIII-SP1-LR)

**Power Specification:** 6V 5AH AGM Sealed Lead Acid, 0.6W Solar Panel

**Operating Environment:**

Temperature: -40 ~ 60°C  
Humidity: 0 ~ 100% Condensing

**Ambient Air Temperature Sensor:**

Range: 60°C  
Accuracy:  $\pm 0.2^\circ\text{C}$  at 25°C  
Resolution: 0.1°C

**Relative Humidity:**

Range: 0 ~ 100%  
Accuracy:  $\pm 2\%$  for  $10 \leq \%RH \leq 90$  at 25°C  
Resolution: 1%  
Long Term Drift: <0.5%/Yr

**Barometric Pressure:**

Range: 300 ~ 1100 mbar  
Accuracy:  $\pm 0.5$  mbar between 700-1100 mbar at 25°C  
Resolution: 1 mbar  
Long Term Drift: -1 mbar/Yr

**Liquid Precipitation:**

Range: 0 ~ 762 mm/hr  
Accuracy:  $\pm 2\%$  at 25.4 mm./hr x 3  
Resolution: 0.254 mm.

**Wind Direction:**

Range: 0 ~ 360°  
Accuracy:  $\pm 11.25^\circ$   
Resolution: 22.5°

**Wind Speed:**

Range: 0 ~ 67 m/s  
Accuracy: Greater of 0.45m/sec.or 5% of Reading  
Resolution: 1 m/s  
Threshold: 0.45 m/s at a 10° Deflection

**Radio Transmitter**

**2.4GHz**

Outdoor Line-of-Sight Range: Up to 1600 m, up to 750 m EU Variant  
Transmit Power Output: 18dBm, 10 dBm for EU Variant  
Operating Frequency: ISM 2.4GHz

**418/433MHz**

Outdoor Line-of-Sight Range: Up to 122 m  
Transmit Power Output: 0dBm  
Operating Frequency: 418MHz, 433MHz

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### Pyranometer Sensor:

Operational Temperature:	-25 ~ 55°C
Range:	0 ~ 1750 W/m <sup>2</sup>
Accuracy:	±5%
Cosine Response 45°:	±1%
Cosine Response 75°:	±5%
Resolution:	1 W/m <sup>2</sup>

### Leaf Wetness:

Operational Temperature:	0 ~ 70°C
Senses:	Dew and Precipitation
Resolution:	Wet or Dry

### UV Sensor:

Range:	0 ~ 15 UVI
Spectral Response:	290 ~ 400 nm
Accuracy:	±10%
Resolution:	0.1 UVI

### Soil Moisture TRD:

Operational Temperature:	0 ~ 50°C
Range:	0-100% \

### Soil Moisture Watermark:

Operational Temperature:	0 ~ 50°C
Range:	0 ~ 239 cbar
Resolution:	1 cbar

### Soil Temperature:

Range:	-40 ~ 80°C
Accuracy:	±0.2°C at 25°C
Resolution:	0.1°C

### Back of Module Temperature Sensor:

Range:	-40 ~ 80°C
Accuracy:	±0.2°C at 25°C
Resolution:	0.1°C

### Radiation Monitor:

Operational Temperature:	-20 ~ 50°C
Spectral Response:	Gamma & X-Ray Radiation 0.02 ~2+ MeV
Range:	0.1 ~ 50 R/hr

**Electronics :** Lead-free RoHS Compliant

### Physical:

Packaged Dimensions:	91.44 cm x 50.8 cm x 33.02 cm (36" x 20" x 13")
Packaged Weight:	9.07 kg ( 20 lbs.)

**Warranty** 2 Years