

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: ± 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 ²
Accuracy:	±5%
Cosine Response 45°:	±1%
Cosine Response 75°:	±5%
Resolution:	1 W/m ²

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