

Specifications

MKIII (General Specifications)

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

Operating Environment:

Temperature: -40 ~ 70°C (-40 ~ 158°F)

Humidity: 0 ~ 100% Condensing

Ambient Air Temperature Sensor:

Range: -55 ~ 85°C (-67 ~ 185°F)

Accuracy: $\pm 0.2^{\circ}\text{C}$ at 25°C ($\pm 0.4^{\circ}\text{F}$ at 77°F)

Resolution: 0.056°C (0.1°F)

Relative Humidity:

Operational Temperature: -40 ~ 70°C (-40 ~ 158°F)

Range: 0 ~ 100%

Accuracy: $\pm 2\%$ for $10 \leq \%RH \leq 90$ at 25°C (77°F)

$\pm 4\%$ for $10 > \%RH > 90$ at 25°C (77°F)

Resolution: 1%

Barometric Pressure:

Operational Temperature: -40 ~ 85°C (-67 ~ 185°F)

Range: 300 ~ 1100 mbar (8.86 ~ 32.49 inHg)

Accuracy: ± 0.5 mbar between 700-1100 mbar at 25°C

(± 0.015 inHg between 20.67 ~ 32.49 inHg. at 77°C)

Resolution: 0.34 mbar (0.01 inHg)

Anemometer (Reed Switch)

Operational Temperature: -40 ~ 85°C (-40 ~ 185°F)

Anemometer Extension: Up to 15.24m (50ft)

Wind Direction:

Range:	0 ~ 360°
Accuracy:	±11.25°
Resolution:	22.5°
Starting Threshold:	1.98 m/s (4.43 mph)

Wind Speed:

Range:	0 ~ 67 m/s (0 ~ 150 mph)
Accuracy:	Greater of 0.45m/s (1 mph) or 5% of Reading
Resolution:	0.045 m/s (0.1 mph)
Threshold:	0.65 m/s (1.45 mph)

6.2) LR Model (2.4GHz)

Operational Temperature:	-40 ~ 85°C (-67 ~ 185°F)
Outdoor Line-of-Sight Range:	Up to 1600 m (1 mi), Up to 750 m (2500 ft) for EU Variant
Transmitter Output Power:	18dBm, 10 dBm for EU Variant
Operating Frequency:	ISM 2.4GHz
Update Rate:	2s

6.3) 418/433MHz Transmitter

Operational Temperature:	-30 ~ 70°C (-22 ~ 158°F)
Outdoor Line-of-Sight Range:	Up to 122 m (400 ft)
Transmit Power Output:	6.5 dBm
Operating Frequency:	418MHz, 433MHz for EU Variant
Update Rate:	30s