

WAVELET WEATHER KIT

SUMMARY

The Wavelet Weather Kit offers an end-to-end solution for real-time measurement of essential atmospheric parameters including temperature, barometric pressure, relative humidity, rainfall, wind speed, and wind direction. Atmospheric conditions may cause ecosystem chain reactions. For example, increased humidity and pressure can indicate changing precipitation patterns. High temperatures can lead to increased evaporation and reduced crop yields.

Each multi-parameter sensor has a single probe and radiation shield. The Wavelet Weather Kit provides an autonomous, low-power solution for ensuring continuous, reliable atmospheric data streams and can remain operable under even harsh weather conditions. It is an ideal Kit for upgrading weather station technology and analyzing atmospheric trends.

FEATURES

- ▶ Compact Design
- ▶ Low Maintenance
- ▶ Real-Time Alarms and Alerts

APPLICATIONS

- ▶ Weather Station Monitoring
- ▶ Agricultural Monitoring
- ▶ Atmospheric Modeling

SENSOR SPECIFICATIONS

A. Rain Gauge

Receiver	282.8 mm ±0.3 mm (7.8 in. ±0.01 in.) diameter, heavy duty cast aluminum, powder coated
Bucket Capacity	0.1 mm (0.0039 in.)
Sensitivity	One tip
Accuracy	±1% for 0-25 mm/hr; ±3% above 25 mm/hr

B. Compact Weather Monitoring System

	Range	Resolution	Accuracy
Wind Speed	0 – 70 m/s (156mph)	0.01 m/s	±2% or 0.3 m/s (0 – 30m/s); ±3% (30 – 70 m/s)
Wind Direction	0 – 360 degrees	0.1 degree	±2 degrees
Temperature	-40°C to 60°C (-40°F to 140°F)	0.1°C	±0.3°C for -20°C to 50°C (-4°F to 122°F); ±0.7°C other
Relative Humidity	0 – 100% RH	0.1% RH	±2% (5 – 95%)
Barometric Pressure	500 – 1,300 mbar (500 – 1,300 hPA)	0.1 mbar	±0.3 mbar
Electronic Compass	0 – 360 degrees	0.1 degrees	±2 degrees



A.

B.

Model No. WA2111-SE00022-SE00103-WA00154

Wavelet Weather Kit includes:

- Wavelet Device & Activator
- 4G (LTE), 3G, 2G Global SIM Card
- Internal Lithium Battery
- Installation Hardware
- External Power Connector
- **WA00154** 10W Solar Panel Assembly
- **A. SE00022** Rain Gauge (Tipping Bucket), 2 m (6-ft) Cable
- **B. SE00103** Compact Weather Monitoring System, 4.5 m (15-ft) Cable