

precise
rugged
easy



wattmetrics | Weather Station

To accurately track the efficiency of any solar installation, a high-quality weather station is a necessity. The WattMetrics weather sensor platform is designed specifically for solar projects. It provides system builders with an accurate, durable, flexible and affordable weather station solution.

Single-Cable Power and Communications

Power and communications are provided to the station via a single cable, making installation quicker and easier than other weather stations.

Zero Configuration

All instruments are pre-configured and pre-calibrated. Just connect the combined power and communications cable into a WattMetrics Universal Acquisition Agent and you're done.

Embeddable Data

Interactive charts with live weather data are easily embeddable in any website.

Unmatched Accuracy

Like all WattMetrics data sources, recorded weather station readings are heavily oversampled, ensuring highly accurate data.

Wind Sensors Optional

Our flexible platform allows customers to choose the sensors that best their specific project.

Multiple Irradiance Sensor Options

The standard irradiance sensor offers a great balance between affordability and accuracy. For more demanding projects, higher-accuracy sensors are available.



Heavy-Duty Instrument Tower

18 gauge steel tubing is zinc-chromate-polymer galvanized with gold irridited leg braces, mast collars, and connecting components.

Specifications

Irradiance: +/- 5%

Cell Temperature: +/- 1%

Ambient Temperature: +/- 1%

Instrument Tower Height: 84". An additional 31" extension is available. A guy wire kit is also available.

Wind Speed:

Range: 0 to 50 m/s (112 mph)

Gust Survival: 60 m/s (134 mph)

Accuracy: ± 0.5 m/s (1.1 mph)

Distance Constant (63% recovery): 2.3 m (7.5 ft)

Threshold: 0.5 m/s (1.1 mph)

Wind Direction:

Sensor: Balanced vane; 16 cm turning radius

Damping Ratio: 0.2

Accuracy: $\pm 5^\circ$

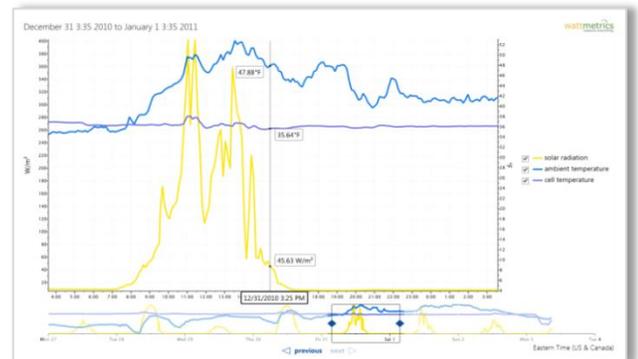
Delay Distance (50% recovery): 0.5 m (1.6 ft)

Threshold:

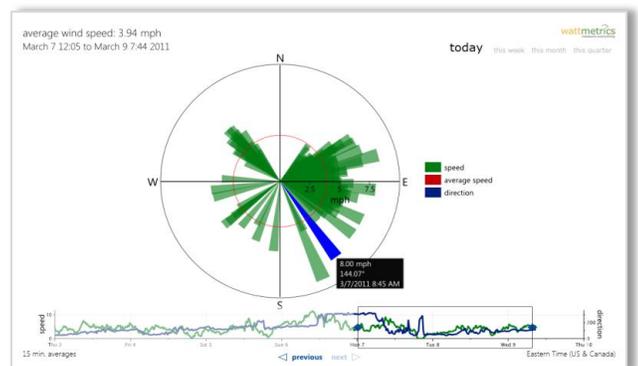
- 10° Displacement: 0.8 m s⁻¹ (1.8 mph)
- 5° Displacement: 1.8 m/s (4 mph)



multiple irradiance sensor options



irradiance and temperature data



wind vector data



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