

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:**  $\pm 0.5$  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:**  $\pm 5^\circ$

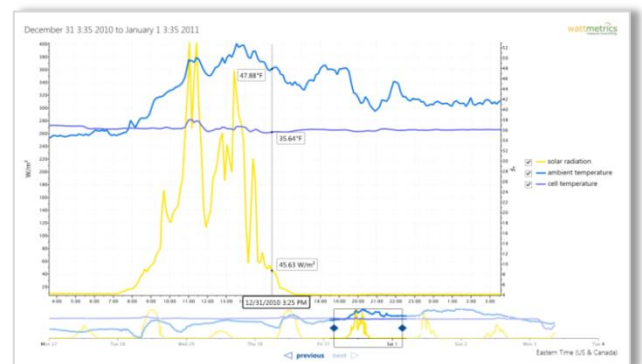
**Delay Distance (50% recovery):** 0.5 m (1.6 ft)

**Threshold:**

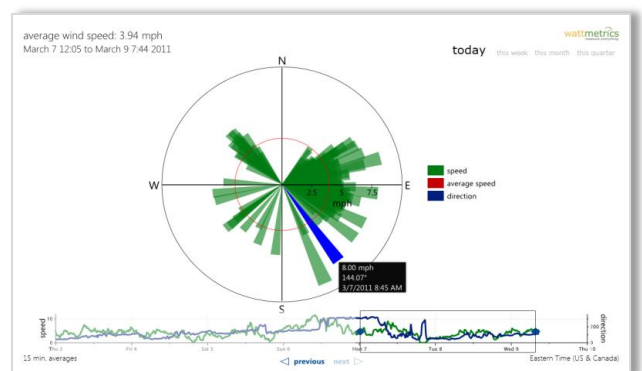
- $10^\circ$  Displacement: 0.8 m s<sup>-1</sup> (1.8 mph)
- $5^\circ$  Displacement: 1.8 m/s (4 mph)



multiple irradiance sensor options



irradiance and temperature data



wind vector data



www.wattmetrics.com

info@wattmetrics.com

888.328.4094