

SOLRENVIEW WEATHER STATION



FEATURES

- Solar irradiance sensor
- Ambient temperature sensor
- Module temperature sensor
- Accurate readings
- Detailed system data
- NEMA 4 enclosure
- MODBUS communications for third party monitoring capability

OPTIONS

- Wind speed sensor
- Wind direction sensor

WEATHER MONITORING

The real-time weather station allows customers to view accurate readings for crucial environmental information. The weather station contains a solar irradiance sensor, and temperature sensors for ambient and module measurements. Wind speed and wind direction sensors are options that may be added to the weather station. This is a great educational tool and a must for PPAs. The weather station is also compatible with many third party monitoring systems.



SPECIFICATIONS

WEATHER STATION ENCLOSURE

Ambient Temperature Range	-40°F to +131°F (-40°C to +55°C)
Dimensions (H x W x D)	12 in. x 10 in. x 4 in. (304.8 mm x 254 mm x 101.6 mm)
Enclosure Rating	NEMA 4

SOLAR IRRADIANCE TEMPERATURE SENSOR

Repeatability	±1%
Cosine Response	45° zenith angle: ±1%; 75° zenith angle: ±5%
Sensor Wire Length	197 in. (5000 mm)
Ambient Temperature Range	-13°F to +131°F (-25°C to +55°C)

AMBIENT TEMPERATURE SENSOR

Range	-40°F to +257°F (-40°C to +125°C)
Accuracy	±1°C (±33.8°F)
Sensor Wire Length	120 in. (3048 mm)

MODULE TEMPERATURE SENSOR

Range	-40°F to +257°F (-40°C to +125°C)
Accuracy	±1°C (±4°F)
Mounting Location	back of module
Sensor Wire Length	120 in. (3048 mm)

WIND SPEED SENSOR

Accuracy	±2.5 mph
Speed Range	2.5 mph to 125+ mph (5 km/h to 200+ km/h)
Sensor Wire Length	300 in. (7620 mm)

WIND DIRECTION SENSOR

Sensor Range	360°, zero deadband
Sensor Wire Length	300 in. (7620 mm)

Please see the SolrenView datasheet for more information and specifications about web-based monitoring



Solectria Renewables' weather station can withstand all weather conditions.



Weather [2011-05-04 10:42:56 MDT]	
Irradiance:	 470 W/m²
Ambient Temperature:	62° F / 16° C
Module Temperature:	84° F / 29° C
Wind (S):	7.5 mph

SolrenView™ outputs and displays weather station information including irradiance, temperature and wind.