



**Smarrtrak
Weather Monitoring
Brochure**



Features:

- Perfect diagnostic utility to troubleshoot solar power issues.
- Analyzes weather data, calculates the net energy generation capacity and transmits real-time data via wireless.
- Integrates 9 high quality, industrial grade sensors for monitoring, alarming and reporting. Sensors are fully encapsulated in marine grade epoxy for complete environmental protection.
- Dashboards for easy visualization of data.

Khronos W10 - Weather Monitoring System

	Anemometer	Humidity	Temperature	Pyranometer	Pyranoheliometer
Sensor Type	3-cup anemometer	Polymer Resistor Humidity Sensor	Integrated circuit temperature sensor with 6 plate radiation shield	Sensor with adjustable leveling feet and a bulls-eye bubble level with precision ground and polished glass domes	Precision ground and polished quartz window/lens
Applications	Wind resource assessment Meteorological studies Environmental monitoring	Wind resource assessment Meteorological studies Environmental monitoring	Wind resource assessment Meteorological studies Environmental monitoring	Scientific meteorological observations Building physics Climate Solar Collector / PV panel efficiency testing	Normal incidence direct solar irradiance measurement
Sensor Range	1 m/s to 96 m/s (2.2 mph to 214 mph) (highest recorded)	5 to 95 % relative humidity	-40 ⁰ C to 52.5 ⁰ C	0 to 2000 W/m ²	0 to 2000 W/m ²
Accuracy	Within 0.1 m/s (0.2 mph) for the range 5 m/s to 25 m/s (11 mph to 55 mph)	+/- 5 % RH from 5 to 95 % RH (at 25 ⁰ C)	Offset is +/- 0.8 ⁰ C (maximum) Non-linearity is +/- 0.33 ⁰ C (maximum) Total error +/- 1.1 ⁰ C (maximum)	Within 2 W/m ²	Within 1 W/m ²
Operating Temperature Range	-55 ⁰ C to 60 ⁰ C	-40 ⁰ C to 54 ⁰ C	-40 ⁰ C to 52.5 ⁰ C	-40 ⁰ C to 80 ⁰ C	-40 ⁰ C to 80 ⁰ C
Output Display	Through webpage interface and daily email notification				

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