

Pyrheliometer Sensor with Digital Indicator

Sensor

Power Supply: Self powered

Sensitivity: 0.20 mV per W/m²

Spectral range: 360 nm to 1120

Response time (95%): 18 s

Full opening view angle: 30 degrees

Slope angle: 1 degree

Irradiance range : 0 to 2000 W/m²

Sensitivity (nominal): 10 μV/ W/m²

Temperature range: -40 to +80° C

Temperature dependence: < 0.1%/°C

Non stability (drift): < 1% per year

Cable length: 5 standard (longer lengths optional)

This is a normal incidence direct solar irradiance sensor (also known as a pyrheliometer). Suitable for tracker mounted operation is intended for short-wave direct solar irradiance measurement of the sun. The sensor ideally suited for normal incidence direct solar irradiance measurement. Capable of measuring up to 2000 W/m², the pyrheliometer can be deployed anywhere on earth.



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The signal cable can be easily replaced by the user onsite, thus minimizing down-time and expense otherwise associated with instrument re-cabling and/or cable connector replacement by the manufacturer. Ideally this sensor should be used with Dual Axis Solar Tracker.

Indicator

Processor: 16 bit Extreme Low Power

Parameter Monitored: Date, Time, DNI.

Display: LCD (16 X 2) to display the instrument status.

Keyboard: provided for on-site programming.

Logging: Manual / Automatic (User Selectable)

logging Internal: 1 sec to 24 hrs

Site Reference: Programmable

User can view / delete logger data at site without help of computer.

Key Tone: Provided with user selectable ON/OFF Feature

Back Light: Provided with user selectable High, Medium & Low intensity and ON/Timed

ON feature.

LCD Contrast: Provided with user selectable 0 to 7 contrast Levels.

PC Software: GUI based Virtualware software for Data download.

Real Time Clock: Internal with accuracy of +/- 2 minutes /year & leap year



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compensation

Memory: 4000 data sets.

Battery : 2XAA Alkaline Batteries (easily replaceable onsite).

Battery Monitoring: Battery Level display on LCD with Low Battery Warning

Operating Humidity 0 to 100%, Operating Temp: - 20 to 70 °C

Data Port: USB Port for Downloading Data from Data Logger to
Computer/Laptop.

Data Output Format MS- Excel

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