

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.

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 be 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 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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Represented by:

**** Drawing / specifications are subjected to change at any time without prior notice as per manufacturing suitability.**