



Virtual Electronics Company
वरचूअल इलैक्ट्रॉनिक्स कम्पनी

Digital Solar Radiation Recorder (Pyranometer for Global Radiation)



Solar radiation sensor that can be applied for most common solar radiation observations. It complies with the latest ISO and WMO standards. The scientific name of this instrument is Pyranometer. LP02 is a modern alternative for the so-called “star” or “black and white” Pyranometer overcoming the problem of poor stability of the white reflective paint. A Pyranometer is an instrument for measuring solar radiation received from a whole hemisphere. It is suitable for measuring global sun plus sky radiation. The Pyranometer Sensor measures global solar radiation (sun plus sky) for a spectral response graph. This instrument is used extensively in meteorological studies, passive solar system analysis, irrigation scheduling, hydrologic studies and many other environmental studies. This Pyranometer measures the entire solar spectrum, 280 to 2800 nm. The system consists of a weatherproof enclosure, which contains the data logger and power supply, and comes complete with a solar panel, tripod stand and silicon Pyranometer sensor. Measurements can automatically stored in systems memory as per user selectable logging period. Comes with integral solar panel, which will easily keep the batteries charged throughout the year. A durable hard enclosure protects the data logger from weathering. User-replaceable SMF batteries. Data file is saved in Microsoft’s Excel.

Features:

Measured Parameter – Date, Time, Solar Radiation

LCD (16 X 2) to display the instrument status. Membrane Keyboard is provided for on site programming without help of computer. Adjustable Tripod Stand. User Programmable Logging Interval from 1 min to 24 Hour

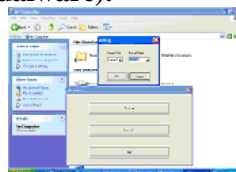
Memory range more than 4000 data sets (extendable to more at extra cost)

Rechargeable SMF batteries with integral solar panel, which will easily keep the batteries charged throughout the year. User-friendly Virtualware application software. Data retrieval by pocket size data shuttle to your computer Suitable for mounting in a variety of locations, Comes with weatherproof enclosure

Sensor Range: 0 to 2000 W m⁻², Spectral Range: 305 - 2800 nm Stability: 1 to 2% change over a 1 year period.

Data Retrieval options: The standard Weather Station Comes with data retrieval option through Data Shuttle. But you can also choose following data retrieval options – Thought Telephone Line Modem / GSM Modem At Extra Cost.

Application Software (Virtualware):



Virtualware is a user-friendly, Menu Driven, Windows based weather station’s software allows you to view & save collected data. Data file is saved in Microsoft’s Excel format.

Data Download Options: You can choose any one option given below, for data download from Pyranometer to your computer.

Data Shuttle:



The data shuttle is a pocket-sized device that can be used to download & transport the data from weather station to a computer (USB Port), allowing the instrument to stay in place for continuous monitoring/recording. The shuttle connects to a PC and is used with the “Virtualware” to download data.

Ethernet LAN :



Through Ethernet LAN to Computer. You can enter IP Address of your computer and connect to the Pyranometer. You can also get instantaneous data just press Monitor Menu. Used with the “Virtualware” software to download data.

GSM/GPRS Modem:



The GSM/GPRS Modem is a standard RS232 port based GSM modem to receive data on the PC side which sent by the logger end. This Modem works with Virtual GSM Ware Software to encoded information into database & finally into a presentable MS-Excel Report. A communication cable, Power Adopter & Antenna is shipped along with the modem. This modem too requires GSM SIM cards to function.

Following sensors can also connect with this instrument

- Air Temperature & Relative Humidity Sensor
- Wind Speed Sensor
- Wind Direction Sensor
- Rain Fall Sensor
- Water temperature Sensor
- Soil Temperature Sensor
- Air pressure sensor (Barometer)
- Water Level (Shaft Encoder Type) Sensor
- Hydrostatic Submersible Level Sensor
- Evaporation Sensor
- Snow Gauge (Snow Water Equivalent) Sensor
- Ultrasonic Snow Depth Sensor

- Leaf Wetness Sensor
- Soil Moisture Sensor
- Electronic Tensiometer
- Solar Radiation Sensor (Pyranometer)
- Solar Radiation Sensor(Silicon Pyranometer)
- Ultra Violet Sensor
- Quantum Sensor
- IR Pyranometer Sensor
- Line quantum Sensor
- Passive Cloud Cover Sensor
- Fog Sensor
- Visibility Sensor
- Infrared remote Temperature Sensor

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Hydrology, Meteorology, Forestry, Agro-Meterology, Scientific & Soil Testing Equipments.

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