



Plant Canopy Analyzer



This system offers convenient and flexible tools for measuring and analyzing incident and transmitted Photo synthetically Active Radiation (PAR) in Crop and Forest canopies. It provides vital information about the penetration of PAR into crops and forest , and is essential in work such as comparative crop studies, for separating out the effects of cultivars and treatment. It is particularly well suited to low regular canopies (as found in many agricultural crops). It can be used in most light conditions. The first sensor probe has an array of 10 PAR sensors embedded in a 1m long probe, and is connected with handheld Data logger. The second sensor probe also has a 1 PAR sensor embedded in a 1m long probe, and is connected with handheld Data logger. One PAR Sensor is also connected with data logger for reference incoming radiation. When a reading is taken, all sensors are scanned and the measurements transmitted to the data logger. The average light level along the probe is calculated. Further you can download data from data logger to a computer (USB Port) with the help of "Virtualware" (PC Interface Software).

Features:

Sensor Input - 1 PAR Sensor, 10 Line Quantum Sensors

Measured Parameter – Site Ref., Date, Time, Incoming PAR, Diffuse PAR, LAI

LCD (16 X 2) to display the instrument status

Membrane Keyboard is provided for on site programming without help of computer.

Adjustable Tripod Stand with leveling plate for Single PAR Sensor.

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

Rechargeable SMF batteries with battery charger.

User-friendly Virtualware application software for data retrieval from data logger to computer (USB Port)

Operating Temperature: -20 to 70 °C. Operating Humidity: 0 to 95 % non-condensing.

Measures Direct and transmitted PAR in plant canopies. Direct display of Leaf Area Index (LAI). Unique PAR sensor for measuring direct PAR. Usable in all weather conditions. Portable and battery powered.

Calculate LAI under steady and changing light when used with external PAR sensor.

Designed to be hand-held.

Auto-logging – define intervals from 1 sec to 24 Hour as per customer's requirement (Sold Extra).

This System has a well structured file format and readings can be fully annotated with site Reference.
Extendable Cable Length.

This system is useful for field measurements of PAR (Photosynthetically Active Radiation) values in crop canopies to provide valuable information about the parameters influencing growth.



The first sensor probe has an array of 10 PAR sensors embedded in a 1m long probe, and is connected with handheld Data logger. This probe is used for large canopies / Tree.

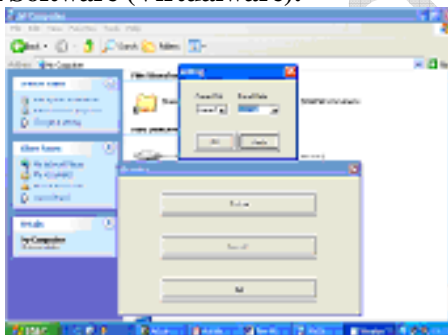


The second sensor probe also has a 1 PAR sensor embedded in a 1m long probe, and is connected with handheld Data logger. This probe is used for small canopies / Plants.



One PAR Sensor is also connected with data logger for reference incoming radiation.

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.

Factory: 1105/1, Salempur Rajputana Industrial Estate, Roorkee – 247667

District - Haridwar (Uttarakhand) India

Telefax: +91-1332-266186, Cell: +91-9412072697

Email: virtualroorkee@yahoo.com; vsp_roorkee@yahoo.com

Web: www.virtualweb.co.in

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

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