

# Radiation Sensors

## Sunshine Pyranometer - SPN1

- Global (Total) and Diffuse irradiance in  $W.m^{-2}$
- WMO sunshine threshold:  $120 W.m^{-2}$  direct beam
- No moving parts, shade rings or motorized tracking

The new Sunshine Pyranometer is a patented, meteorological class instrument for measuring global and diffuse radiation and sunshine duration.



## Sunshine Sensor - BF3

- Measures global and diffuse radiation, and sunshine duration
- PAR reference sensor for Sun Scan System
- Outputs can be PAR ( $mmol.m^{-2}.s^{-1}$ ), Energy ( $W.m^{-2}$ ) or Lux

An affordable sensor for measuring global and diffuse radiation and sunshine duration, with wider accuracy tolerances than the SPN1 Sunshine Pyranometer.



## Tube Solarimeter - TSL

- Solar energy interception measurements in crops

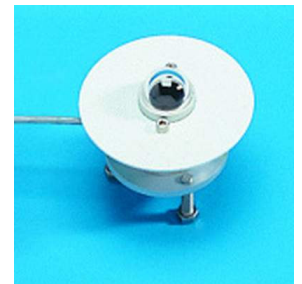
Now discontinued - please see product page for further details.



## Dome Solarimeter (Pyranometer) - GS1

- Global solar energy to WMO class 2

Dome solarimeter (pyranometer) based on thermopile, for WMO class 2 solar energy reference measurements. Dome 36mm diameter.



## Albedometer type - GS2

- Measures incident and reflected global radiation

Comprises two GS1 pyranometers mounted back-to-back.



## Energy Sensor - ES2

- High quality silicon photodiode for solar energy measurement

High stability silicon photodiode sensor with good cosine response, infinity error correction ring and self-cleaning diffuser.



## Quantum Sensor - QS2

- High quality silicon photodiode sensor for plant science studies

Measures photosynthetically active radiation - PAR. High stability silicon photodiode sensor with good cosine response, infinity error correction ring and self-cleaning diffuser. Photograph shows Quantum Sensor and Energy Sensor on SRLF1 ground mounting unit.



## UV Radiation Sensors - UV3pA, UV3pB and UV3pAB

- Range of UV photodiode sensors with transimpedance amplifiers

A range of 3 high accuracy UV sensors featuring photodiode detectors and transimpedance amplifiers so that they can be connected easily to data loggers.



## Net Radiometer - NR2

- Global net radiation

Dome net radiometer based on thermopile, for reference measurements of net radiation.

