

For routine measurement of solar radiation

It is especially designed for:

Photo Voltaic / solar energy module monitoring

Agricultural evapotranspiration estimation

Air pollution dispersion calculations using the Delta-T method

Educational purposes



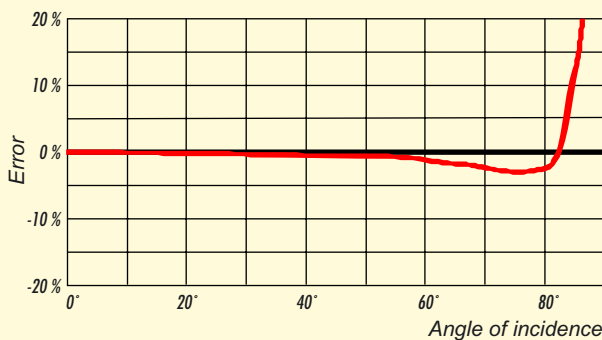
SP LITE is ideal for measuring available energy for use in solar energy applications, plant growth, thermal convection and evapotranspiration.

SP LITE uses a photodiode detector, which creates a voltage output that is proportional to the incoming radiation. Also due to the unique design of the diffuser, its sensitivity is proportional to the cosine of the angle of incidence of the incoming radiation, allowing for accurate and consistent measurements.

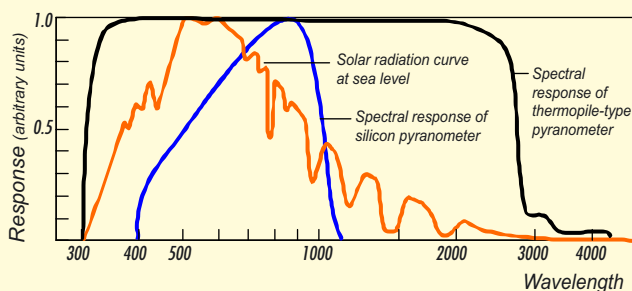
The SP LITE Silicon Pyranometer compares favourably to ISO 9060-specified First Class Thermopile Pyranometers under clear & unobstructed natural daylight conditions, and fully complies with CE Directives.

SP LITE can be used under all weather conditions. The sensor measures the solar energy received from the entire hemisphere.

### DIRECTIONAL RESPONSE



### SPECTRAL RESPONSE



### SPECIFICATIONS

Spectral range	0.4 - 1.1 $\mu\text{m}$
Sensitivity (nominal)	100 $\mu\text{V/W/m}^2$
Response time	less than 1 s
Max. irradiance	2000 $\text{W/m}^2$
Temperature dependence	+0.15 %/°C (typical)
Operating temperature	-30 °C to +70 °C
Directional error	$\pm 5\%$ at 80 degrees

