



Light Meter For Growers

Skye Instruments have been specialising in light and radiation sensors since 1983. All are designed, manufactured and calibrated to the highest standards. Each is supplied with a Calibration Certificate traceable to the UK's National Physical Laboratory (NPL).

Skye offer two types of PAR sensors to measure light levels in the PAR range, choose from units of $\mu\text{mol m}^{-2} \text{s}^{-1}$ (PAR Quantum), or W m^{-2} (PAR Energy). The PAR range (between 400 and 700nm) is important for the plant's photosynthesis process which produces sugars and growth. Measuring lighting levels in this range will aid in the monitoring and regulation of plant growth and development.

Increase yields by making regular spot checks on the light levels your plants are receiving - shade or add supplementary lighting as required.

Use the system to check on a regular basis the efficiency of supplementary lighting lamps. Notice how the light output from them gradually decreases with age - meaning you are using the same amount of electricity but the crop is receiving lower light levels. This meter will help you to decide the economically optimum time for changing lamps.

The Light Meter for Growers will help you to determine whether the glass on Greenhouses needs cleaning. If you take readings when the glass has been cleaned and then take regular routine readings, you can see how much the light transmission has decreased. Research shows that light transmissions gradually decline as the glass becomes dirtier - a 10% decrease in light transmission has been shown to give a 10% decrease in crop yield.



Easy to use

Direct readout of light level

Choice of PAR Quantum or PAR Energy

Checks light uniformity over crops

Professional, accurate, inexpensive

SPECIFICATIONS

Sensor Specifications

Working Range PAR Energy 0-2,000 W m^{-2}
PAR Quantum 0-20,000 $\mu\text{mol m}^{-2} \text{s}^{-1}$
Cosine corrected head

Sensor Spectral Response PAR 400-700nm

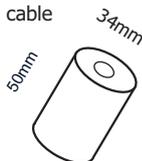
Temperature Range -35°C to +70°C

Humidity Range 0-100% RH

Construction Material Acetal

IP Rating IP 67 Temporary Immersion to 4m (30mins)

Dimensions 130g with 3m cable



Meter Specifications

Switchable Ranges PAR Energy 0-20, 0-200 0-2,000 W m^{-2}
PAR Quantum 0-200, 0-2,000, 0-20,000 $\mu\text{mol m}^{-2} \text{s}^{-1}$

Power NiCad. 1x9 volt PP3 battery, alkaline or Approx 250hrs life with alkaline

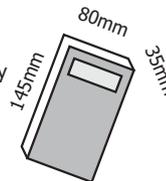
Temperature -10°C to +60°C

Accuracy 0.1% LCD

Controls On/Off
Range - 3 positions

Display 3.5 digit LCD

Dimensions 280g inc. battery



ORDERING INFORMATION

Sensors

SKP 215/I - PAR Quantum Sensor with 1.2m cable

SKE 510/I - PAR Energy Sensor with 1.2m cable

Meters

SKP 200 - Display meter for PAR Quantum, includes carrying case

SKE 500 - Display meter for PAR Energy, includes carrying case

Accessories

SKM 221 - Leveling unit

NOTES ON SPECIFICATIONS

All Skye sensors will work at levels of irradiance well above that found in terrestrial sunlight condition, room or growth chamber lighting

Please ask for our Light Guidance Notes for an insight into making light level measurements

Please ask for datasheet SKE 510 for more detailed specifications on the PAR Energy or datasheet SKP 215 for the PAR Quantum sensor.