



LIGHT

Light Meter for Growers

- **Easy to use**
- **Direct readout of light level**
- **Choice of PAR Quantum or PAR Energy**
- **Check that the light is uniform over the crops**
- **Professional, accurate & inexpensive**



Light levels are traditionally measured in Lux units, as this represents the sensitivity of the human eye.

Plants are sensitive to a wider range of the sun's spectrum than are human eyes, called the Photosynthetically Active Radiation or PAR range.

Skye offer two types of PAR sensors to measure light levels in the PAR range, choose from units of micromoles per metre squared per second (PAR Quantum), or watts per metre squared (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.

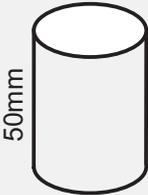
Use the system to check on a regular basis the efficiency of supplementary lighting lamps. Notice how the light output from them gradually decreases with age - meaning you are using the same amount of electricity but the crop is receiving lower light levels.

This meter will help you to decide the economically optimum time for changing lamps.

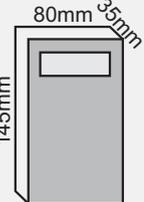
The Light Meter for Growers will help you to determine whether the glass on Glasshouses needs cleaning. If you take readings when the glass has been cleaned and then take regular routine readings, you can see how much the light transmission has decreased. Research shows that light transmissions gradually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



SPECIFICATIONS Sensor

Dimensions	Weight	Construction	Working range*	Sensor	Spectral response	Temperature range	Humidity range
 34mm 50mm	150g With 3m cable	material Dupont 'Delrin' sealed to IP 64 (Splashproof)	0-2000 W m ⁻² or 0-20,000 μmol m ⁻² s ⁻¹	Cosine corrected head	400-700nm	-35 to +70°C	0-100% RH

SPECIFICATIONS Meter

Dimensions	Weight	Display	Controls	Ranges	Power supply	Temperature	Accuracy
 80mm 35mm 145mm	280g. inc. battery	3.5 digit LCD	On/off (unit is automatically off when sensor is unplugged) Range- 3 positions	Switchable Ranges 0-20 0-200 0-2,000 W m ⁻² or 0-200 0-2,000 0-20,000 μmol m ⁻² s ⁻¹	1x9 volt PP3 battery, alkaline or NiCad. Approx 250hrs life with alkaline	-10 to +60°C	0.1% LSD

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.

ORDERING INFORMATION

Light Meter for growers

SKE 500/512/140	PAR Energy Sensor with display meter and carry case
SKP 200/217/140	PAR Quantum system with display meter and carry case

Accessories

SKM 221	Levelling unit
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