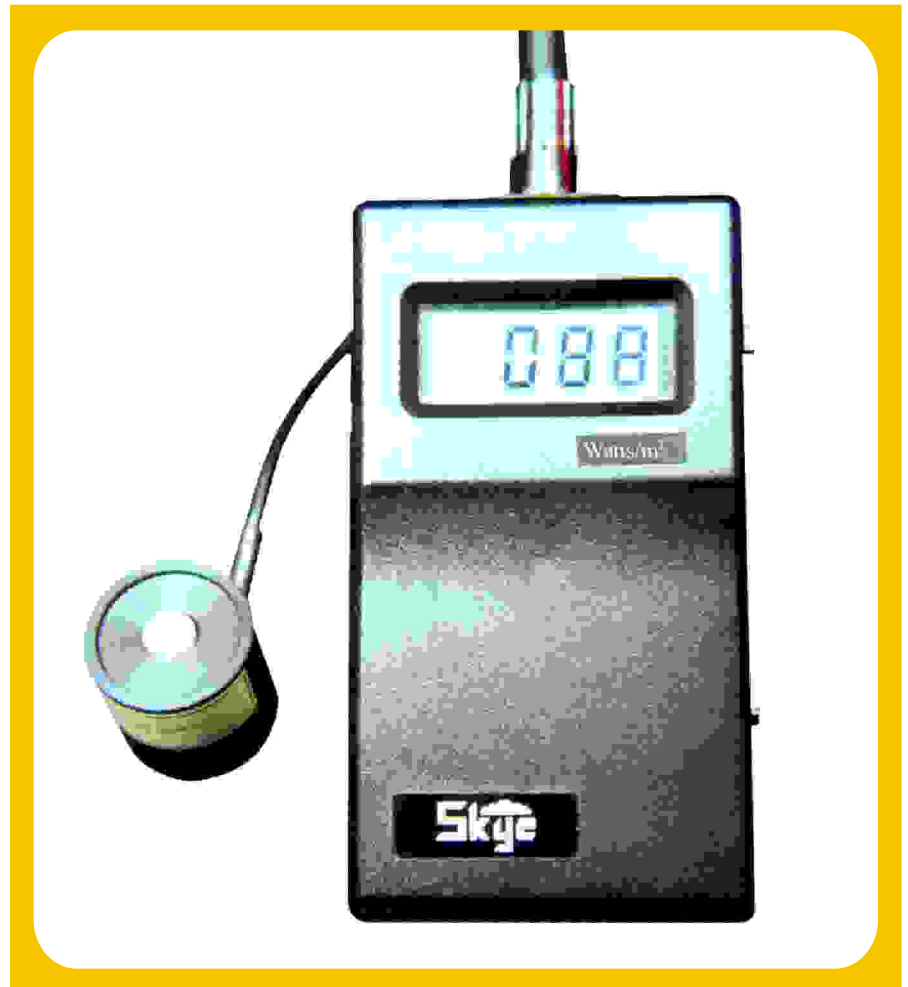


LIGHT

Light Meter for Growers

- Easy to use
- Direct readout of light levels
- Measures the energy plants use for photosynthesis
- Robust and waterproof



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.

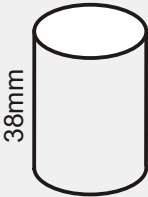
Skye's Energy sensor measures the PAR range in units of Watts per square metre. The PAR range

(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.

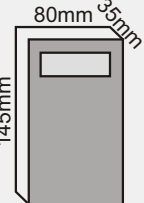
The Energy sensor can be used with a hand-held display meter as shown above, for taking on-the-spot measurements of light levels. Alternatively it can be

connected to the Skye Datahog datalogger which will automatically record the changing levels throughout the day. The DataHog can also be fitted with a switching relay to enable the automatic control of supplementary lighting according to the natural daylight levels.

SPECIFICATIONS Sensor

Dimensions	Weight	Construction	Working range*	Sensor	Spectral response	Temperature range	Humidity range
 34mm 38mm	130g	material Dupont 'Delrin' Fully sealed to IP 68 (submersible)	0-2000 Wm ²	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 0-20 0-200 0-2,000 Watts/m ²	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 Energy sensor.

ORDERING INFORMATION

Light Meter for growers

SKE 500/510/140G

Energy Sensor with check display meter and carry case

Dataloggers

SDL 5000 series

DataHogs

Skye Instruments Ltd

21, Ddole Enterprise Park
Llandrindod Wells
Powys LD1 6DF
United Kingdom

TEL +44 (0)1597 824811

FAX +44 (0)1597 824812

EMAIL skyeemail@skyeinstruments.com

WEB <http://www.skyeinstruments.com>

