



LIGHT

PAR Line Quantum Sensor

- **Measures average PAR light along a 1m length**
- **Monitor light levels within or beneath the canopy**
- **Use with ratio meter and incident PAR sensor for plant canopy transmissions**
- **Compatible with dataloggers for long term monitoring**



Photosynthetically Active Radiation or PAR light lies in the range 400-700nm and is the part of the sun's spectrum used by plants for photosynthesis.

The PAR line quantum sensor consists of 33 individual sensors evenly spaced along a 1m length. The design and diffusing cover ensures the average of PAR light falling along the whole length is measured.

Measuring light profiles with a single sensor under canopies or

in growth rooms can introduce errors, as the light is usually not constant or not uniform over the whole area. The PAR line quantum sensor instantaneously measures an average of the light falling on its 1m length, hence minimising these errors.

The line sensor is often used together with a standard PAR quantum sensor which measures the incident PAR light falling on the plant surface, whilst the line quantum sensor is usually placed within or beneath the plant canopy.

The percentage of light transmission through the canopy can be instantly read using the SKP 2200 2-channel Ratio Display Meter as pictured above. For long term monitoring both sensors are compatible with Skye DataHog loggers and SpectroSense2 logging meters. Please ask for further details.



SPECIFICATIONS

Dimensions	Materials	Cable	Sensor	Sensitivity	
1000mm length (active area 850mm)	'U' section anodised aluminium Diffuser - acrylic IP65 sealed	5 metres	33 photodiodes. PAR response 400 - 700nm	1mV/10µmoles/ m ² /sec or current output option	
Temperature Sensitivity	Linearity	Uniformity along sensing surface	Response Time	Operating Range	Level bubble
± 0.15%/°C at peak response, from 0-50°C	1% over 0 - 2000 µmoles/m ² /sec	better than 2% over 0.85m sensing length	2 µseconds, 10-90%	-20 to +50°C	Fitted to sensor

ORDERING INFORMATION

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Hand-held Display Meter System - line quantum only

SKP 200 1-channel Display Meter
SKP 215LQC/I Line quantum sensor with Current output and
connector for Display Meter

Hand-held Display Meter System - line quantum plus incident sensors

SKP 2200 2-channel Ratio Display Meter
SKP 215/I PAR Quantum sensor with 3m cable
SKP 215LQC/I Line quantum sensor with Current output and
connector for Display Meter

With waterproof connector for Skye DataHog loggers or SpectroSense2 meter

SKP 215/I PAR Quantum sensor with 3m cable
or /SS2
SKP 215LQC/I Line quantum sensor with Current output and
connector for DataHog2 or SpectroSense2
or /SS2
SKP 215LQV/I Line quantum sensor with standard mV output
and connector for DataHog2 or SpectroSense2
or /SS2

Wire ended sensor for own datalogger

SKP 215LQC Line quantum sensor with Current output
SKP 215LQV Line quantum sensor with standard mV output
SKP 215 PAR Quantum sensor with 3m cable

Accessories

SKM 221/T Levelling unit for PAR Quantum Sensor with
tripod mount

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