LIGHT

SpectroSense2 Meter

- **Multichannel meters for Light Sensors**

- **4 channel SpectroSense2 display meter**

- **8 channel SpectroSense2+ logging display meter**

- **For light sensors from Skye and other manufacturers**

- **4 line display for up to 8 sensors simultaneously**

- **Ratio, store and automatic logging functions**

Skye Instruments are world renowned for the design and manufacture of high quality light and radiation sensors for both indoor and outdoor use. Since 1983 much development time has been invested to produce sensors which meet expected and published spectral responses, and all are individually calibrated and traceable to National Standards (National Physical Laboratory, UK)

The SpectroSense2 meters have been designed specifically for recording accurate light and radiation measurements, even at very low light levels. They are compatible with Skye's own extensive range of sensors plus those from other manufacturers.

The 4 line LCD display presents readings from up to 8 sensors or channels simultaneously by freezing the display and scrolling as necessary. These measurements can be either direct sensor measurements or ratios between pairs of sensor channels, e.g. for comparing light levels inside : outside; above canopy : below canopy; above surface : underwater; incident : reflected etc.
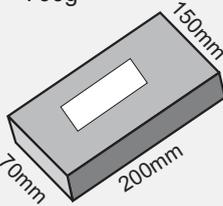
Sensors are easily interchanged and the meter's memory has storage for up to 16 calibration factors. Connected to several multi-spectral sensors, the SpectroSense2 meter is ideal for use as a low cost mini spectroradiometer.

Integration of light measurement over time is also available, e.g. to give daily values of MJ/day solar energy, plus automatic datalogging of all channels. Free software is included to download the SpectroSense2+ memory to a PC. Datafiles are simple ASCII format for direct use with Excel, Word etc.

The range of Skye sensors for use with the SpectroSense2 meter include PAR, red/far-red, total solar radiation, lux, UV and also custom wavelength to order. Please ask for details.

Operating range	Construction	Dimensions / Weight	Display	Keypad
-20°C to +70°C 0-100% RH	Black ABS, sealed to IP54	700g 150mm 70mm 200mm	20x4 line, alphanumeric liquid crystal display	Membrane keypad. Audible key press **SpectroSense2** 8 keys **SpectroSense2+** 12 keys

Power	Battery life	Resolution/Accuracy	Input Ranges	Memory
Internal 9 volt PP3 / MN1064 / 6LF22 battery External 12VDC power supply via RS232 socket, from solar power, mains transformer or vehicle	40 - 50 hours in display mode, **Logging version only** up to 300 hours in log mode	Resolution Minimum 16 bit 1 part in 65536 Accuracy Typically 0.008% at 20°C for mid range	Current Ranges ±20nA to ±2mA Voltage ranges ±2mV ±2V	Sensor library for 16 calibration factors. Non volatile EEPROM memory, no data loss if main power fails. **Logging version only** Over 2000 readings of each 8 inputs stored with date and time.

Connections	Clock	Logging Intervals	Modes	Sensor inputs
Binder Sub-miniature, 5 or 8 pin for sensors. 8 pin for PC connection on logging version only	**Logging version only** Real time clock powered by internal lithium battery, ability to synchronise readings between several SpectroSense2+ meters. Will keep time without the main batteries.	**Logging version only** 1, 2, 5, 10, 20, 30 seconds 1, 2, 5, 10, 20, 30 minutes 1, 2 hours Intervals >10s will be averages of 10s readings	**All versions** A) 4 or 8 sensor / channel display B) 2 or 4 ratios display C) Integration display D) Set up mode **Logging version** A) F1 "favourite" display B) NDVI display C) Log mode D) Memory functions E) Download to PC	**SpectroSense2** Choose 4 inputs from 4 x current, and/or 2 x voltage **SpectroSense2+** Choose 8 inputs from 8 x current, and/or 4 x voltage

ORDERING INFORMATION

Sensor
SKL 904	SpectroSense2 display meter
SKL 908	SpectroSense2+ logging display meter

Light Sensors
SKP 210/SS2	PAR 'Special' sensor
SKP 215/SS2	PAR 'Quantum' sensor
SKE 510/SS2	PAR Energy sensor
SKR 1800/SS2	2-Channel sensor
SKR 1850/SS2	4-Channel sensor
SKS 1110/SS2	Pyranometer sensors
SKL 310/SS2	Photometric or Lux
SKU 420/SS2	UVA Sensor
SKU 430/SS2	UVB Sensor
SKR 110/SS2	Red / Far red sensor

Accessories
SKM 221	Levelling unit - recommended for keeping light sensors level

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 skyemail@skyeinstruments.com
WEB http://www.skyeinstruments.com