

LIGHT

SpectroSense2 Meter for NDVI

- 4 or 8 channel meter for light sensors
- For 1-channel, 2-channel or 4-channel sensor types
- Displays readings from up to 8 sensors or channels simultaneously
- Displays sensor ratios and NDVI ratio
- Hold, storing & logging functions
- Ideal for ground truth measurements



Skye Instruments are specialist manufacturers of light and radiation sensors since 1983. The SpectroSense2 hand-held meter is a new addition to the range for use with several single sensors or with 2 and 4 channel sensors.

SpectroSense2 is a 4-channel meter which displays from 4 sensors or channels simultaneously. These can be either direct sensor readings or ratios between pairs of sensor channels, e.g. for incident / reflected ratios for NDVI calculations. Integration of light

measurement over time is also available, e.g. to give daily values of MJ/day solar energy

The 'Hold' button allows the user to freeze the display for easy viewing of all 4 real time measurements. The meter's memory has storage for up to 16 calibration factors for straightforward interchange of sensors as required.

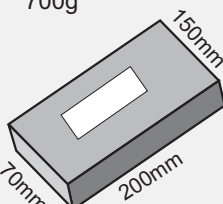
SpectroSense2+ is an 8-channel meter with all the functions of the SpectroSense2, but includes an automatic logging function and

more complex NDVI calculations. 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 custom wavelength sensors. Please ask for details.



SPECIFICATIONS

Operating range	Construction	Dimensions / Weight	Display	Keypad
-20°C to +70°C 0-100% RH	Black ABS, sealed to IP54	700g 	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 $\pm 20\text{nA}$ to $\pm 2\text{mA}$ Voltage ranges $\pm 2\text{mV}$ $\pm 2\text{V}$	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
SKL 908

SpectroSense2 display meter
SpectroSense2+ logging display meter

Light Sensors

SKP 210/SS2
SKP 215/SS2
SKE 510/SS2
SKR 1800/SS2
SKR 1850/SS2
SKS 1110/SS2
SKL 310/SS2
SKU 420/SS2
SKU 430/SS2
SKR 110/SS2

PAR 'Special' sensor
PAR 'Quantum' sensor
PAR Energy sensor
2-Channel sensor
4-Channel sensor
Pyranometer sensors
Photometric or Lux
UVA Sensor
UVB Sensor
Red / Far red sensor

Accessories

SKL 910

Hand-held pole

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>

