

# 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.

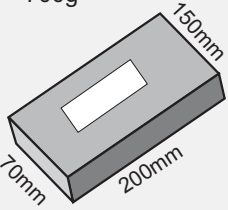
SpectroSense2+ is an 8-channel meter with all the functions of the SpectroSense2, but includes an automatic logging function and

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  <b>SpectroSense2</b> 8 keys  <b>SpectroSense2+</b> 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,  <b>Logging version only</b> 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.  <b>Logging version only</b>  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	<b>Logging version only</b>  Real time clock powered by internal lithium battery, ability to synchronise readings between several SpectroSense2+ meters. Will keep time without the main batteries.	<b>Logging version only</b>  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	<b>All versions</b>  A) 4 or 8 sensor / channel display B) 2 or 4 ratios display C) Integration display D) Set up mode  <b>Logging version</b>  A) F1 "favourite" display B) NDVI display C) Log mode D) Memory functions E) Download to PC	<b>SpectroSense2</b>  Choose 4 inputs from 4 x current, and/or 2 x voltage  <b>SpectroSense2+</b>  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

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