



LIGHT

SpectroSense2+ Meter for NDVI

- Logging display meter for visible and NIR light sensors
- Incident & reflected light measurements
- Matched to satellite wavebands
- Direct readout of NDVI
- Automatic logging of measurement location via GPS
- 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 an 8-channel meter with a 4 line display for 8 light sensors or wavebands simultaneously. Readings can be displayed as individual measurements or as ratios between pairs of wavebands, e.g. Red / NIR. A direct readout of NDVI is also available.

The meter features automatic datalogging and a solar radiation integration function as MJ/day solar energy.

New for 2008 is the option of recording the measurement position using user defined labels or actual latitude and longitude via a GPS receiver.

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

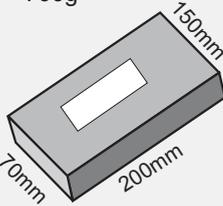
sensors as required.

Free software is included to download the SpectroSense2+ memory to a PC. Datafiles are simple ASCII format for direct use with spreadsheets such as Excel.

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. We are able to supply calibrated sensors to match most satellite wavebands.



SPECIFICATIONS

Operating range	Construction	Dimensions / Weight	Display & Keypad	Connections
-20°C to +70°C 0-100% RH	Black ABS, sealed to IP54	700g 	20x4 line, alphanumeric liquid crystal display 12 key Membrane keypad. Audible key press	Binder sub-miniature Waterproof sockets 5 pin for sensors. 8 pin for serial RS232 PC connection (USB adapter available)
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 up to 300 hours in automatic log mode 6-8 hours in GPS 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 $\pm 2\text{mV}$ to $\pm 2\text{V}$	Sensor library for 16 calibration factors. Non volatile EEPROM memory, no data loss if main power fails. 2000 readings of each 8 inputs stored with date, time & location
Measurement Location	Clock	Logging Intervals	Modes	Sensor inputs
LABELS 100 user defined alphanumeric labels Chosen manually or auto sequential when recording measurements OPTIONAL GPS MODULE Latitude & Longitude recorded with light measurements No subscription needed Uses SiRF Star III chipset Resolution typically 3m, 1m possible in SBAS areas	Real time clock powered by internal lithium battery Ability to synchronise readings between several SpectroSense2+ meters. Will keep time without the main batteries.	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	A) 8 sensor / channel display B) 2 or 4 ratios display C) NDVI display D) Integration display E) Plot location labels F) GPS mode G) F1 toggles user's "favourite" display H) Log mode I) Set up mode J) Memory functions K) Download to PC	6 sensor sockets Includes: 2 x 4 channel inputs plus 4 x user options OPTION 1 4 x 2 channel current OPTION 2 2 x 2 channel current 2 x 1 channel voltage OPTION 3 4 x 1 channel voltage

ORDERING INFORMATION

Logging Meter

SKL 908

SpectroSense2+ logging display meter

SKL 925

SpectroSense2. *GPS*

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 sensor

SKL 310/SS2

Photometric or Lux sensor

SKU 420/SS2

UVA Sensor

SKU 430/SS2

UVB Sensor

SKU 440/SS2

UV Index sensor

SKR 110/SS2

Red / Far red sensor

Accessories

SKL 910

Hand-held pole

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