



# SpectroSense 2+. GPS Meter for NDVI

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.

The SpectroSense2+.GPS 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. You will be able to record 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.



## SPECTROSENSE SPECIFICATIONS

Construction -	Black ABS, sealed to Ip54	Measurement locations -	LABELS 100 user defined alphanumeric labels Chosen manually or auto sequential when recording measurements
Operating Range -	20 C to +70C 0-100% RH	OPTIONAL GPS MODULE	Latitude & Longitude recorded with light measurements. No subscription needed. Uses SiRF Star III chipset. Resolution typically 3m. Impossible in SBAS areas
Display and Keyboard -	20x4 line, alphanumeric liquid crystal display. 12 key Membrane keypad. Audible key press	Clock -	Real time clock powered by internal lithium battery. Ability to synchronise readings between several SpectroSense2+ meters. Will keep time without the main batteries.
Connections -	Binder sub-miniature Waterproof sockets 5 pin for sensors. 8 pin for serial RS232 PC connection (USB adaptor available)	Logging Intervals -	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
Power -	Internal 9 volt PP3 / MN1064 / 6LF22 battery. External 12VDC power supply via RS232 socket, from solar power mains transformer or vehicle	Modes -	A) 4 or 8 sensor / channel display B) 2 or 4 ratios display C) NDVI display D) Integration display E) Plot location labels F) GPS mode G) Fl toggles user's "favourite" display H) Log mode I) Set up mode J) Memory functions K) Download to PC
Battery Life -	- 40 - 50 hours in display mode up to 300 hours in automatic log mode 6-8 hours in GPS mode	Sensor Inputs -	6 sensor sockets Includes: 2 x 4 channel inputs + 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.
Resolution/ Accuracy -	Resolution Minimum 16 bit 1 part in 65536. Accuracy typically 0.008% at 20°C for mid range	Weights and Dimensions -	700g 70mm 150mm 200mm
Input Ranges -	Current Ranges ±20nA to ±2mA Voltage ranges 2mV ±2V		
Memory -	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		



Logging display meter for visible/NIR light sensors  
Incident & reflected light measurements  
Matched to satellite wavebands  
Direct readout of NDVI  
Logging of measurement location via GPS

## ORDERING INFORMATION

### Logging Meter

SKL 925/4: SpectroSense2+.GPS 4 channel logging meter

SKL 925/8: SpectroSense2+.GPS 8 channel logging meter

### Light Sensors

SKR 1800/SS2 - 2 Channel sensor

SKR 1850/SS2 - 4 Channel sensor

SKP 215/SS2 - PAR Quantum sensor

SKS 1110/SS2 - Pyranometer sensor

SKL 310/SS2 - Photometric or Lux sensor

SKU 421/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 for 1 - 6 sensors

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