



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. Direct readouts of NDVI, PRI, EVI, MSAVI, RVI, WBI, fPAR and LAI are also available (with appropriate sensor configuration).

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) FI 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 200mm 150mm
Input Ranges -	Current Ranges ±20nA to ±2mA Voltage ranges ±2mV to ±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 920 SpectroSense2+.GPS 4 channel logging meter

SKL 925 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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