

# 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

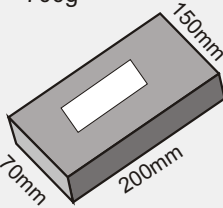
sensors as required.

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<br>0-100% RH  | Black ABS, sealed to IP54   | 700g<br>   | 20x4 line, alphanumeric liquid crystal display<br>12 key Membrane keypad. Audible key press   | Binder sub-miniature Waterproof sockets<br>5 pin for sensors.<br>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<br><br>External 12VDC power supply via RS232 socket, from solar power, mains transformer or vehicle   | 40 - 50 hours in display mode<br><br>up to 300 hours in automatic log mode<br><br>6-8 hours in GPS mode   | Resolution<br>Minimum 16 bit<br>1 part in 65536<br><br>Accuracy<br>Typically 0.008% at 20°C for mid range                               | Current Ranges<br>±20nA to ±2mA<br><br>Voltage ranges<br>±2mV<br>±2V  | Sensor library for 16 calibration factors.<br><br>Non volatile EEPROM memory, no data loss if main power fails.<br><br>2000 readings of each 8 inputs stored with date, time & location   |
| Measurement Location   | Clock   | Logging Intervals   | Modes   | Sensor inputs   |
| LABELS<br>100 user defined alphanumeric labels<br>Chosen manually or auto sequential when recording measurements<br><br>OPTIONAL GPS MODULE<br>Latitude & Longitude recorded with light measurements<br><br>No subscription needed<br>Uses SiRF Star III chipset<br><br>Resolution typically 3m, 1m possible in SBAS areas | Real time clock powered by internal lithium battery<br><br>Ability to synchronise readings between several SpectroSense2+ meters.<br><br>Will keep time without the main batteries. | 1, 2, 5, 10, 20, 30 seconds<br><br>1, 2, 5, 10, 20, 30 minutes<br><br>1, 2 hours<br><br>Intervals >10s will be averages of 10s readings | A) 8 sensor / channel display<br>B) 2 or 4 ratios display<br>C) NDVI display<br>D) Integration display<br>E) Plot location labels<br>F) GPS mode<br>G) F1 toggles user's "favourite" display<br>H) Log mode<br>I) Set up mode<br>J) Memory functions<br>K) Download to PC | 6 sensor sockets<br>Includes:<br>2 x 4 channel inputs plus 4 x user options<br><br>OPTION 1<br>4 x 2 channel current<br><br>OPTION 2<br>2 x 2 channel current<br>2 x 1 channel voltage<br><br>OPTION 3<br>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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