solatell 🗠

User Programmable UV/Near Visible Radiometer

Incorporating Solatell® spectroradiometer optics for high accuracy

- Go / No Go warning lights
- Comparison with user selected reference lamp
- User selectable wavelength ranges between 235nm and 470nm
- Absolute radiometric readings
- Closed loop control outputs

Sola-Check

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• Upgradeable to Sola-Scope 2000

SIMPLICITY

Inexperienced users are able to quickly and simply assess the state of their UV lamps. Obtaining accurate UV radiometric data is as simple as a single press of the sample button. Data is displayed as a large number or as a comparative bar chart, with a green, amber or red LED indicating the curability state of the lamp.

EASE OF USE

Changing the wavelength ranges and the alarm levels is via an easy to use 4 key simple to use user interface. Storing a new reference reading requires only 2 key presses.

ACCESS TO UV LAMP

Positioning the Sola-Check is made easy with the large selection of attachments, smart probes and probe positioner kits. SOLATELL LTD have a wealth of experience accessing most UV lamp systems on the market today.

POWERFUL UPGRADE CAPABILITIES

The Sola-Check can be upgraded to become a full spectroradiometer with the addition of a Sola Scope 2000 user-interface. Multiple Sola-Checks can also be networked, used on-line for continuous monitoring and used for closed loop control.

TRAINING AND TECHNICAL SUPPORT

With its minimum training requirement, the introduction of the Sola-Check requires negligible disruption of staff and production time. Technical support from our team of UV measurement experts is available via telephone or e-mail.

CAPABILITIES

- · Calibrated, absolute measurement
- Calibration traceable to National Physical Laboratory (UK)
- Designed to be positioned for continuous monitoring
- User defined alarm level to warn when intensity of lamp dips below pre-set levels
- Closed loop control capabilities
- Stores a measurement spectra for reference
- Compares two measurements
- Connects to Sola-Scope 2000
 for full spectral measurements
- Multiple Sola-Checks can
 be networked

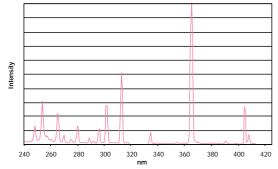
curing your UV problems



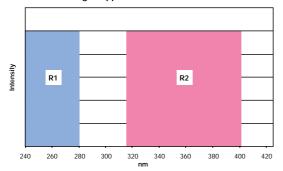
EXPLANATION OF DATA PROCESSING

Display Information

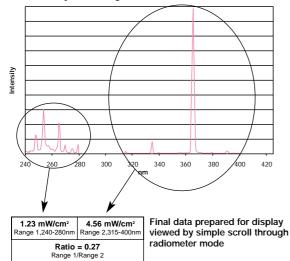
Full spectral scan data collected by Solatell technology (as viewed by Sola-Scope)



User defined ranges applied to data



Total intensity within ranges calculated



PLEASE CALL TO DISCUSS YOUR REQUIREMENTS, OR FOR MORE INFORMATION ON OUR EXPANDING RANGE OF PRODUCTS

SOLATELL LTD

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ORDERING INFORMATION (example only)

Туре	Code	Description
Sola-Check	SOL-CH10	Standard instrument
Light Reducer	R101	Used with higher powered lamps e.g. >100mW/cm ²
Fine probe	PFP300	300mm long light collector, 4.8mm diameter
Probe positioner kit	ADFT11/1 2	Accurately positions probe in UV oven

SPECIFICATION

Optics

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General description	Single grating spectrograph optimised for Ultra Violet Spectroradiometry using patented Solatell® monolithic optics, with 512 pixel UV enhanced detector array.	
Diffuser (optional)	Cosine response UV diffuser. 10 mm dia.	
Wavelength range	235 nm to 470 nm	
Spectral sampling	0.5 nm	
Bandwidth	1nm (+ 0.5 nm /- 0 nm)	
Sensitivity	< 10nW/cm ² /nm, without light reducer	
Dynamic range	> 107	
Stray light rejection ratio	> 10 ³	
Stray light rejection softwa	are compensation enhances straylight rejection further	

Mechanical

Construction Dimensions Environmental Temperature range Non-slip, tough ABS combined with aluminium housing 118 x 69 x 32 mm IP55, standard. - 20 °C to +70 °C storage - 10 °C to +50 °C operating +15 °C to +30 °C full spec

Fischer 5-way female, sealed to IP68 connecting

0 V; +5 V dc in; RS485–A/TXD; RS485–B/RXD; EXT a) Internal 3V NiMh sealed battery pack

b) External +12V d.c. power supply (supplied) or
 c) +5 V dc; +/-5 %; 35 mA supplied by

a) RS485 serial asynchronous data at 250k Baud

32x97 pixel graphical display plus icons for charge state, memory, signal and real-time clock

Seven button membrane tactile, sealed keypad

Sola-Scope 2000 viewing station if fitted

Linear semiconductor, accurate to 2 °C

0 to 80 % non condensing

to 4-way screened cable

b) RS232 serial printer driver Siemens C509L running at 6MHz

Provides waveform analysis

Auto Ranging and Smart-Scan™

10 bit

- Humidity
- Electrical Connector

Connections Power requirement

Data comms.

Processor A to D conversion Temperature sensor Visible sensor (optional)

User Interface

Sample time Display Keypad

I/O connector

Solenoid driver Thermocouple input Analogue input Analogue outputs Coin 2 Serial 2 SOLDRV, 0v THERM+, THERM-SENS+, SENS-AOUT1, AOUT2 COIN2+ RXD2, TXD2

Note

Due to have Solatell Ltd policy of continuous product improvement, specification is liable to change without notice. Please consult your supplier, or Solatell Ltd direct for clarification if necessary.

Patents granted or pending on Solatell technology in more than one country.

Warranty All Solatell products are guaranteed to be free from manufacturing defects for a period of 1 year from date of purchase. As a general measuring instrument, Solatell Sola-Sensors require periodic recalibration, usually annually.