ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
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Expert team | Trust guarantee | 100% satisfaction

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Find the *Solatell Sola-Scope 2000* at our website: *Click HERE*

Sola-Check

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
- 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

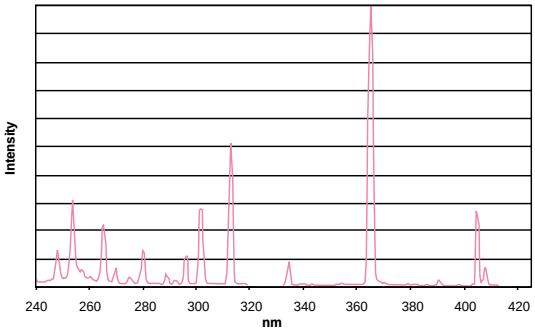
curing your UV problems

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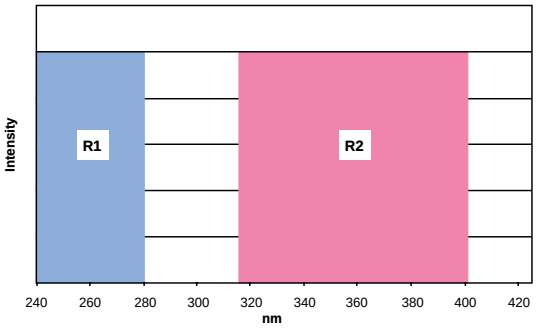
EXPLANATION OF DATA PROCESSING

Display Information

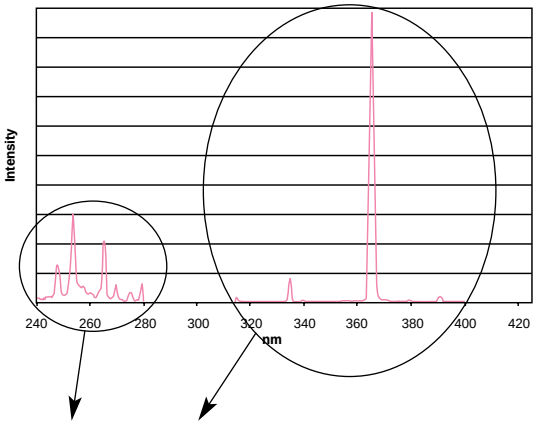
Full spectral scan data collected by Solatell technology
(as viewed by Sola-Scope)



User defined ranges applied to data



Total intensity within ranges calculated



1.23 mW/cm² Range 1,240-280nm	4.56 mW/cm² Range 2,315-400nm
Ratio = 0.27 Range 1/Range 2	

Final data prepared for display viewed by simple scroll through radiometer mode

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

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http://WWW.SOLATELL.COM

ORDERING INFORMATION (example only)

Type	Code	Description
Sola-Check	**SOL-CH10**	Standard instrument
Light Reducer	**R101**	Used with higher powered lamps e.g. >100mW/cm²
Fine probe	**PFP300**	300mm long light collector, 4.8mm diameter
Probe positioner kit	**ADFT11/1 2**	Accurately positions probe in UV oven

SPECIFICATION

Optics

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/cm²/nm, without light reducer
Dynamic range	> 10^7
Stray light rejection ratio	> 10^3

Stray light rejection software compensation enhances straylight rejection further

Mechanical

Construction	Non-slip, tough ABS combined with aluminium housing
Dimensions	118 x 69 x 32 mm
Environmental	IP55, standard.
Temperature range	- 20 ºC to +70 ºC storage - 10 ºC to +50 ºC operating +15 ºC to +30 ºC full spec
Humidity	0 to 80 % non condensing

Electrical

Connector	Fischer 5–way female, sealed to IP68 connecting to 4-way screened cable
Connections	0 V; +5 V dc in; RS485–A/TXD; RS485–B/RXD; EXT
Power requirement	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 Sola-Scope 2000 viewing station if fitted
Data comms.	a) RS485 serial asynchronous data at 250k Baud b) RS232 serial printer driver
Processor	Siemens C509L running at 6MHz
A to D conversion	10 bit
Temperature sensor	Linear semiconductor, accurate to 2 ºC
Visible sensor (optional)	Provides waveform analysis

User Interface

Sample time	Auto Ranging and Smart-Scan™
Display	32x97 pixel graphical display plus icons for charge state, memory, signal and real-time clock
Keypad	Seven button membrane tactile, sealed keypad

I/O connector

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

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