


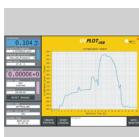
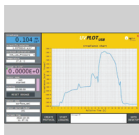




UV Radiometers

Catalog



▶ ABOUT SGLUX UV RADIOMETERS

UV sensors are used in industrial, research and development, and workplace safety applications. Frequently, the measurement signal generated by the sensor is sent directly to an instrument for display. For these applications, sglux produces top quality, high reliability UV radiometers with sensors tailored to the customer's requirements. These UV radiometers detect, measure, and store the UV sensor's signal and provide a wide range of operational features.

Product	Channels				Display	Dose Measurement	Data Storage (Logger)	Sensors and features
	1	2	3	4				
UVRRM 	✓	✓			numeric			Any sglux UV sensor can be connected to the UVRRM. Sensor configured with a suitable plug.
UVPLOT 	✓				graphic	✓	✓	Any sglux UV sensor with USB connector. Can be connected to a local network.
UVMULTILOT 	✓	✓	✓	✓	graphic	✓	✓	Any sglux UV sensor with CAN connector. Can be connected to a local network.
UVTOUCH 	✓	✓			graphic	✓	✓	Any sglux UV sensor with CAN connector.
UVMICROLOG 	✓				none	✓	✓	One built-in sensor.
UVMINILOG 	✓	✓			none	✓	✓	One or two built-in sensors.
SENSORMONITOR 	✓	✓			alpha-numeric	✓	while connected to a computer	Any sglux UV sensor with voltage output and all photodiodes. Three fully programmable relay output terminals.



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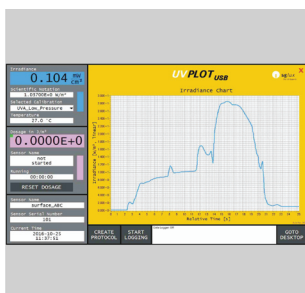
BEGINNER - UVRRM



- UV reference radiometer
- Suitable for UV purifier sensor recalibration
- Any sglux UV sensor can be connected
- Low power consumption, long battery life

The **UVRRM** reference radiometer is an easy to use and rugged instrument. It can be connected to any sglux UV sensor type. It is used mainly for re-calibration of UV water purifier sensors. The **UVRRM** is ready to use immediately after powering on. Its low power consumption allows using it for years without changing the battery.

ALL-ROUNDER – UVPLOT



- UV radiometer based on a 8” tablet computer
- Graphic display
- Datalogger and dosimeter
- Network-compatible, multi-channel

Do you need to display more than just the current radiation intensity? Do you need additional features such as a dosimeter function, datalogging, or seeing the intensity history to be plotted on the screen? The **UVPLOT** is a real all-round instrument for professionally displaying and processing radiation data. It can be connected to a local network via LAN or WiFi. A four-channel solution is available with the **UVMULTIPOINT**.

RUGGED PROFESSIONAL - UVTOUCH



- Two-channel UV radiometer
- Graphic display
- Datalogger and dosimeter
- Rugged metal housing

In harsh conditions of every day field or laboratory use the **UVTOUCH** is a reliable and true companion. Its robustness and versatility makes the **UVTOUCH** unique in the market. The **UVTOUCH** is a two-channel graphic intensity meter, dosimeter, and datalogger. The rugged metal housing even protects against hard impacts on hard floor.

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▶ SIMPLE – UVMINILOG AND UVMICROLOG



- UV data logger for long-time monitoring
- with one or two UV sensors
- additional sensors e.g. temperature, pressure, relative humidity, illuminance (VIS) available
- Low power consumption, long battery life, waterproof

Do you need a simple, easy to use, and waterproof UV datalogger that stores the values and does nothing else? The tiny dataloggers, **UV MINILOG** and **UV MICROLOG**, perfectly match to this requirement. They are available with one or two UV sensors. The power consumption is very low and allows for two years of permanent logging without re-charging the battery.

▶ PROGRAMMABLE - SENSORMONITOR



- Measurement and control module for monitoring and automation of irradiation processes
- Indication of radiation, dose, and status information
- Three programmable relays for automation of single and multi-level irradiation processes
- with two measurement inputs and USB/RS232 output

The **SENSORMONITOR** is a fully programmable measurement and control module with two sensor channels and three programmable relays. These relays switch on or off if a channel reaches or falls below a certain intensity value or if a certain dose is reached. It can be connected to a computer via USB/RS232. After programming, the **SENSORMONITOR** is a perfect control center for a small UV light source or to control sophisticated scientific experiments. The programming method is explained in a detailed manual. Alternatively, we are happy to do custom tailored programming.

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LIST OF PUBLICATIONS

P. Sperfeld¹, B. Barton¹, S. Pape¹, A. Towara¹, J. Eggers², G. Hopfenmueller³

¹Physikalisch-Technische Bundesanstalt Braunschweig and Berlin (PTB), Germany, ²DVGW-Technologiezentrum Wasser, Karlsruhe, Germany, ³sglux GmbH, Berlin, Germany

„Spectral irradiance measurement and actinic radiometer calibration for UV water disinfection“

Metrologia, Issue 51 (2014), p. 282-288.

P. Sperfeld¹, B. Barton¹, S. Pape¹, A. Towara¹, J. Eggers², G. Hopfenmueller³

¹Physikalisch-Technische Bundesanstalt Braunschweig and Berlin (PTB), Germany, ²DVGW-Technologiezentrum Wasser, Karlsruhe, Germany, ³sglux GmbH, Berlin, Germany

„Spectral Irradiance Measurement and Actinic Radiometer Calibration for UV Water Disinfection

Proceedings of NEWRAD 2014, edited by S. Park, P. Kaerhae and E. Ikonen. (Aalto University, Espoo, Finland 2014) p. 128.

B. Barton¹, P. Sperfeld¹, A. Towara¹, G. Hopfenmueller²

¹Physikalisch-Technische Bundesanstalt Braunschweig and Berlin (PTB), 4.1 Photometry and Applied Radiometry, Braunschweig, Germany, ²sglux GmbH, Berlin, Germany

„Developing and setting up a calibration facility for UV sensors at high irradiance rates

EMEA Regional Conference, Karlsruhe, Germany (2013)

P. Sperfeld¹, B. Barton¹, S. Pape¹, G. Hopfenmueller²

¹Physikalisch-Technische Bundesanstalt Braunschweig and Berlin (PTB), 4.1 Photometry and Applied Radiometry, Braunschweig, Germany, ²sglux GmbH, Berlin, Germany

„Traceable spectral irradiance measurements at UV water disinfection facilities

EMEA Regional Conference, Karlsruhe, Germany (2013)

G. Hopfenmueller¹, T. Weiss¹, B. Barton², P. Sperfeld², S. Nowy², S. Pape², D. Friedrich², S. Winter², A. Towara², A. Hoepe², S. Teichert²

¹sglux GmbH, Berlin, Germany, ²Physikalisch-Technische Bundesanstalt Braunschweig and Berlin (PTB), 4.1 Photometry and Applied Radiometry, Braunschweig, Germany

„PTB traceable calibrated reference UV radiometer for measurements at high irradiance medium pressure mercury discharge lamps

EMEA Regional Conference, Karlsruhe, Germany (2013)

D. Prasai¹, W. John¹, L. Weixelbaum¹, O. Krueger¹, G. Wagner², P. Sperfeld³, S. Nowy³, D. Friedrich³, S. Winter³ and T. Weiss⁴

¹Ferdinand-Braun-Institut, Leibniz-Institut fuer Hoechstfrequenztechnik, Berlin, Germany,

²Leibniz-Institut fuer Kristallzuechtung, Berlin, Germany, ³Physikalisch-Technische Bundesanstalt Braunschweig and Berlin (PTB),

4.1 Photometry and Applied Radiometry, Braunschweig, Germany, ⁴sglux GmbH, Berlin, Germany

„Highly reliable silicon carbide photodiodes for visible-blind ultraviolet detector applications

J. Mater. Res., first view (2012)

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S. Nowy¹, B. Barton¹, S. Pape¹, P. Sperfeld¹, D. Friedrich¹, S. Winter¹, G. Hopfenmueller², and T. Weiss²

¹Physikalisch-Technische Bundesanstalt Braunschweig and Berlin (PTB), 4.1 Photometry and Applied Radiometry, Braunschweig, Germany, ²sglux GmbH, Berlin, Germany

„Characterization of SiC photodiodes for high irradiance UV radiometers

Proceedings of NEWRAD2011, edited by S. Park and E. Ikonen. (Aalto University, Espoo, Finland, 2011) p. 203.

B. Barton¹, P. Sperfeld¹, S. Nowy¹, A. Towara¹, A. Hoepe¹, S. Teichert¹, G. Hopfenmueller², M. Baer³, and T. Kreuzberger³

¹Physikalisch-Technische Bundesanstalt Braunschweig and Berlin (PTB),

4.1 Photometry and Applied Radiometry, Braunschweig, Germany, ²sglux GmbH, Berlin, Germany, ³SGIL Silicaglas GmbH, Langewiesen, Germany

„Characterization of new optical diffusers used in high irradiance UV radiometers

Proceedings of NEWRAD2011, edited by S. Park and E. Ikonen. (Aalto University, Espoo, Finland, 2011) p. 278.1.

