UVMICROLOG

UV datalogger for science and production monitoring

GENERAL FEATURES

Properties of the UVMICROLOG

The UVMICROLOG is a datalogger to log ultraviolet and/or visible light information obtained by one sensor. Additionally, the instrument can be equipped with internal sensors to measure pressure, acceleration, humidity and temperature.

The UVMICROLOG stores 2,000,000 parameters. The rechargeable battery allows up to 3 months of permanent measurement without battery charging.

The logger is available as waterproof version (IP67) on request.

Sensor selection

The applications of a UV and/or VIS datalogger are quite varied and therefore the required sensitivity, environmental endurance, spectral response and field of view must be tailored for individual conditions of use. We configure each UVMICROLOG according to the application's specific requirement such as logging of very low UV radiation in a museum, logging of sun radiation (UVA, Erythema, visible) or logging of radiation intensity and dose during a curing process. Our calibration laboratory is happy to do a traceable calibration of the UVMICROLOG.

SPECIFICATIONS

Fixed Specifications Parameter	Value
Dimensions (L x W x H)	59 mm x 22(33) mm x 16 mm
Weight	40 g
Operating Temperature	-15 ... +65°C
Storage Temperature	-20 ... +70°C
Capacity Lithium-polymer Battery	170 mAh
Data Storage	2 000 000 parameters
Number of UV/VIS detectors	1
Interface	USB
Min. Storage Rate UV/VIS Intensity	2 per day
Max. Storage Rate UV/VIS Intensity	50 per second

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OPTIONAL INTERNAL SENSORS

The UVMICROLOG can be equipped with further internal sensors (in addition to one or two external sensors):

* External Temperature   * Pressure
* Relative Humidity   * Acceleration (3-Axis)

Measure	Working Range	Accuracy
Internal Temperature	-10°C ... +58°C	+/-0.1°C (+5°C ... +45°C) +/-0.2°C (-10°C ... +58°C)
Relative Humidity	0 ... 100% rel. hum. (-20°C ... +65°C)	+/-2% rel. hum. (10...85% rel. hum., 0°C ...+40°C)
		+/-4% rel. hum. (85...95% rel. hum., 0°C ... +40°C)
Pressure	0 ... 2500 mbar abs.	+/-2.5 mbar (750 ... 1100 mbar absolute)
Acceleration (3-Axis)	+/-10 G / +/-2 G sel.	+/-0.15 g (25°C)

SOFTWARE (*for download at www.download.sglux.de/dataloggers/*)
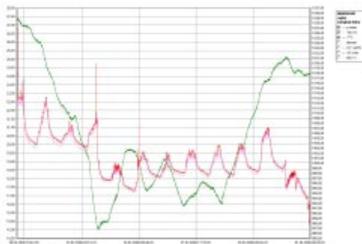
Using the software *Setup* the user customizes the properties of the UVMICROLOG. With the software *Reader* the USB data transfer ist started. The *Viewer* is used for graphical displaying. The data can be exported as a csv file for analyzing in standard software like Excel or Origin. The software *Online* is displaying online measurements.

LOGGING FEATURES
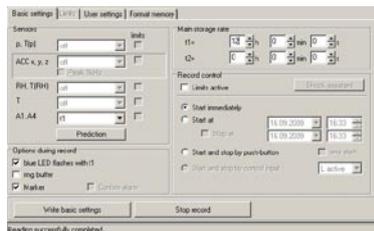
- Record limits can be set for all used sensors.

- Measurements can be started via a connected computer (date and time for the start can be chosen).

- Prediction feature calculates memory and battery capacity for the chosen measurement rates.

- For monitoring of sensitive transport goods a shock measurement can be activated (if acceleration sensor is equipped). Therefore a threshold can be chosen. Every acceleration above this threshold is recorded. The mixing gravitational acceleration is not taken into account.