

UV Minilog

UV datalogger for science and production monitoring

GENERAL FEATURES

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Properties of the UV Minilog

The UV Minilog is a datalogger to log ultraviolet and/or visible light information obtained by one or two sensors. Additionally, the instrument can be equipped with internal sensors to measure pressure, acceleration, humidity and temperature. The UV Minilog stores 2,000,000 parameters. The rechargeable battery allows up to 18 months of permanent measurement without battery charging.

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 UV Minilog 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 UV Minilog.

SPECIFICATIONS

<i>Fixed Specifications</i>	Parameter	Value
	Dimensions (L x W x H)	53 mm x (28.5) 43.5 mm x 29.5 mm
	Weight	60 g
	Operating Temperature	-15 ... +65°C
	Storage Temperature	-20 ... +70°C
Capacity	Lithium-polymer Battery	900 mAh
	Data Storage	2 000 000 parameters
	Number of UV/VIS detectors	1 or 2
	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 UV Minilog can be equipped with further internal sensors (in addition to one or two external sensors):

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

Measure

Internal Temperature
Relative Humidity

Pressure

Acceleration (3-Axis)

Working Range

-10°C ... +58°C
0 ... 100% rel. hum. (-20°C ... +65°C)

0 ... 2500 mbar abs.

+/-10 G / +/-2 G sel.

Accuracy

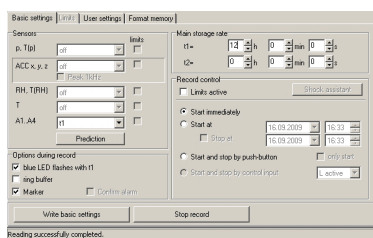
+/-0.1°C (+5°C ... +45°C) +/-0.2°C (-10°C ... +58°C)
+/-2% rel. hum. (10...85% rel. hum., 0°C ... +40°C)
+/-4% rel. hum. (85...95% rel. hum., 0°C ... +40°C)
+/-2.5 mbar (750 ... 1100 mbar absolute)
+/-0.15 g (25°C)

SOFTWARE (for download at www.download.sglux.de/dataloggers/)



Using the software *Setup* the user customizes the properties of the UV Minilog. With the software *Reader* the USB data transfer is 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. If a signal is exceeding a limit the red LED is flashing (on request).
- Measurements can be started via a connected computer (date and time for the start can be chosen) or manually by a push-button (on request).
- The push-button can be used as a marker to mark special events in the recording.
- 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.