

UV SENSOR “UV-Minilog”

UV Datalogger with PC software

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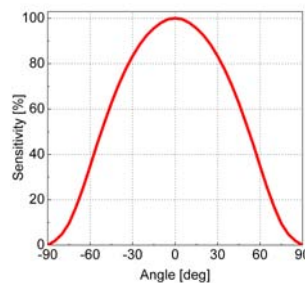
The sensor **UV-MINILOG** is a battery powered UV datalogger with a large internal data storage (2 million readings). It can log data for up to 18 months without recharging. It is IP67 water proof and comes with free PC software. The UV-Minilog can be equipped with all UV sensors to be selected at STEP 1 and STEP 3 of the configuration guide (page 2 of this datasheet).

The probe is amplified and shielded against electromagnetic interference. The sensor is based on a Silicon Carbide (SiC) UV photodiode, which guarantees highest radiation hardness, long term stability and $>10^5$ visible blindness (ratio of UV to Vis-IR sensitivity). Please find at page 2 an individual configuration procedure which allows the prospective user to select the correct spectral response (STEP 1), different output types (STEP 2) and to select a sensitivity range (STEP 3). Please feel invited to contact us for assistance.

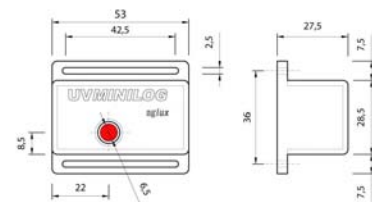
Picture



Field of View



Drawing



Specifications

Fixed Specifications

Parameter	Value
Dimensions	pls. refer to the drawing
Weight	70 g
Temp. Coefficient	0,035%/K
Operating Temp.	-20...+80°C
Storage Temp.	-40...+80°C
Humidity	<80%, non condensing, on request: 100% submersible

Configurable Specifications

Parameter	Value
Absolute Sensitivity	1nW/cm ² ... 10W/cm ²
Spectral Sensitivity	UV-Broadband, UVA, UVB, UVC, UV-Index
Signal Output	USB
Connections	mini USB

Please find the configuration guide at page 2 of this datasheet

Calibration

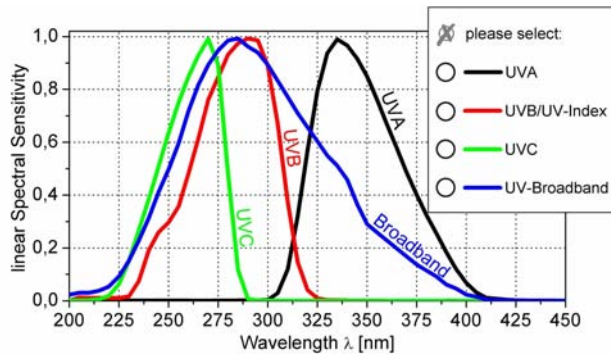


We are pleased to issue an individual quotation for NIST or PTB traceable calibration.

UV SENSOR PROBE

Configuration Guide

STEP 1 → Configuration of the Spectral Sensitivity



Please select one spectral sensitivity curve (shown left). Other spectral responses are available on request.

In the UV, we use SiC photodetectors which makes the probe radiation hard and stable. The visible blindness is better than 10^5 .

STEP 2 → Signal Output

Signal Output via USB mini connector to PC. Comprehensive PC evaluation software is included.

STEP 3 → Sensitivity

We configure your UV sensor for intensities across 10 orders of magnitude from $1\text{nW}/\text{cm}^2$ to $10\text{W}/\text{cm}^2$. For good dynamic behaviour the min and max. intensity at the probe position needs to be known as precisely as possible. Please fill that value, if known, into the box below. If only a rough estimate is possible, please estimate it in the range selection fields. We will contact you for further refinement of the range.

max. radiation in mW/cm^2 or, if not precisely known, range estimation

$1\text{nW}/\text{cm}^2 \dots 10\mu\text{W}/\text{cm}^2$ $10\mu\text{W}/\text{cm}^2 \dots 100\text{mW}/\text{cm}^2$ $100\text{mW}/\text{cm}^2 \dots 10\text{W}/\text{cm}^2$

Probe mechanical design overview

Besides the ticked mechanical design of this datasheet other mechanical designs are available

<input checked="" type="checkbox"/> Type	Description
<input type="checkbox"/> UV-Surface	Standard surface-mount 180° FOV UV Sensor
<input type="checkbox"/> UV-Air	Standard axis oriented in-chamber UV Sensor
<input type="checkbox"/> UV-Cosine	Waterproof UV Sensor for outdoor use
<input type="checkbox"/> UV-Water	10 bar water pressure proof
<input type="checkbox"/> UV-DVGW	UV Sensor for DVGW certified water purifiers
<input checked="" type="checkbox"/> UV-MINILOG	UV Datalogger with PC software (this datasheet)
<input type="checkbox"/> TOCON	Pre-amplified UV Photodiode