UV SENSOR "UV-DVGW" UV Sensor for DVGW certified water purifiers

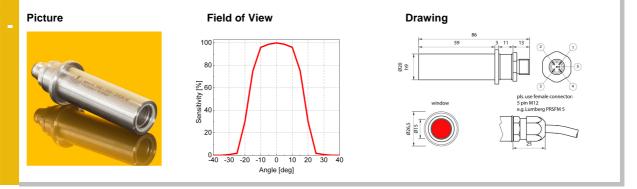


UV Sensor "UV-DVGW"

UV Sensor for DVGW certified water purifiers

The sensor UV-DVGW is a special type suitable for use with DVGW certified water purifiers. It complies with the standard DVGW W294-3(2006). Always delivered calibrated according to DVGW requirements.

The probe is amplified and shielded against electromagnetic interference. The visible blind sensors are based on a Silicon Carbide (SiC) UV photodiode, which guarantees highest radiation hardness, long term stability and $>10^{10}$ visible blindness (ratio of UV to VIS-IR sensitivity). Blue and GaP type sensors are based on a Galliumphosphide (GaP) UV photodiode. 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).



Specifications

Fixed Specifications		Configurable Specifications		
Parameter	Value	Parameter	Value	
Dimensions	pls. refer to the drawing	Absolute Sensitivity	1nW/cm ² 10W/cm ²	
Weight	120 g	Spectral Sensitivity	UVC	
Temp. Coefficient	0,035%/K	Signal Output	05V, 420mA, USB	
Operating Temp.	-20+80°C	Connections	2m cable or 2m cable with 5 pin male connector type Lumberg PRSFM5	
Humidity	<80%, non condensing, on request: 100% submersible	Please find the configuration guide at page 2 of this datasheet.		

Monitor Accessories

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Please consider our UV monitor and UV controller offer.

Calibration



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

Rev. 2.0

page 1

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STEP 1 → Configuration of the Spectral Sensitivity						
₩ please select						
1,0	3 <u>68</u> Y	UVC (SiC) UV Broadband (SiC) UVB / Erythema (SiC) UVA (SiC) Blue (GaP) GaP				
0,6 0,6 0,6 0,0 0,0 0,0 0,0 0,0 0,0 0,0	5 5 7 7 7 7 7 7 7 7 7 7	25 450 475 500 525 550	575 600			
Wavelength ג [nm] Please select one spectral sensitivity curve.						
STEP 2 → Signal Output Please tick your selection. The pin configuration is shown in the drawings on page 1.						
Output Type	Description	Connection = "cable"	Connection = "male plug"			
O 05∨	05V voltage output proportional to radiation input, supply voltage is 724VDC, current consumption is <30mA	O V ₀ =brown, V ₊ =white, Out=green, Shield=black	O V ₀ =1, V ₊ =2, Out=3			
Ŭ	420mA current loop for PLC controllers. The current is proportional to the radiation, supply voltage is 24VDC	$ \bigcirc V_0 = brown, V_+ = white \\$	O V₀=1, V₊=2			
	The signal is transmitted via USB to a computer. Software is included.	>	O Standard USB-A plug, 1,5 m cable			
Ŭ	UV pulse counting for pulses > 30ns, signal out is 5V when the pulse intensity is above threshold and 0V when below.	O V₀=brown, V₄=white, Out=green, Shield=black	O V ₀ =1, V ₊ =2, Out=3			
STEP 3 \rightarrow S	Sensitivity					
We configure your UV sensor for intensities across 10 orders of magnitude from 1nW/cm ² to 10W/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	n in mW/cm ² or, if not precisely known, range	e estimation				
0	$\Box \qquad 1 nW/cm^2 \dots 10 \mu W/cm^2 \qquad \bigcirc$	10µW/cm ² 100mW/cn	100mW/cm ² 10W/cm ²			
Probe mechanical design overview Besides the ticked mechanical design of this datasheet other mechanical designs are available						
🗶 Туре	Description					
UV-Surface	Standard surface-mount 180° FOV UV	Sensor				
O UV-Air	Standard axis oriented in-chamber UV	Standard axis oriented in-chamber UV Sensor				
UV-Cosine	Waterproof UV Sensor for outdoor use	Waterproof UV Sensor for outdoor use				
O UV-Water	10 bar water pressure proof	10 bar water pressure proof				
UV-DVGW UV-MINILOG	UV-DVGW UV Sensor for DVGW certified water purifiers (this datasheet)					
O TOCON-probe Pre-amplified UV Photodetector in a M12x1 housing, only with voltage output available						

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page 2

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