UV SENSOR "UV-DVGW-160"

UV Sensor for ÖNORM and DVGW certified water purifiers

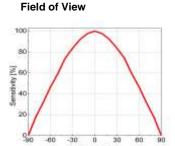
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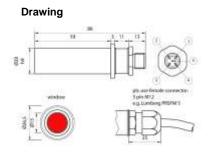
The sensor UV-DVGW-160 is a special type suitable for use with DVGW and ÖNORM certified water purifiers. It complies with the standard DVGW W294-3(2006) and ÖNORM 5873-2. Always delivered calibrated according to DVGW and ÖNORM requirements.

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 >10¹⁰ 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).

Picture







Specifications

Fixed Specifications

Fixed Specifications			
Parameter	Value		
Dimensions	pls. refer to the drawing		
Weight	120 g		
Temp. Coefficient	0,035%/K		
Operating Temp.	-20+80°C		
Humidity	<80%, non condensing, on request: 100% submersible		

Configurable Specifications

Configurable Specifications			
Parameter	Value		
Absolute Sensitivity	1nW/cm ² 10W/cm ²		
Spectral Sensitivity	UVC		
Signal Output	05V, 420mA, USB		
Connections	2m cable or 2m cable with 5 pin male connector type Lumberg PRSFM5		
Please find the configuration guide at page 2 of this datasheet.			

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STEP 1 →	STEP 1 → Configuration of the Spectral Sensitivity					
1,0						
Please select one spectral sensitivity curve. STEP 2 → Signal Output						
	selection. The pin configuration is shown in the drawings or	n page 1.				
Output Type	Description Cor	nnection = "cable"	Connection = "male plug"			
05V		-brown, V ₊ =white, t=green, Shield=black	V ₀ =1, V ₊ =2, Out=3			
420mA	420mA current loop for PLC controllers. \bigcirc V ₀ = The current is proportional to the radiation, supply voltage is 24VDC	=brown, V₊=white	V₀=1, V₄=2			
O USB	The signal is transmitted via USB to acomputer. Software is included.	-	Standard USB-A plug, 1,5 m cable			
Pulse		ebrown, V ₊ =white, t=green, Shield=black	V ₀ =1, V ₊ =2, Out=3			
STEP 3 →	Sensitivity					
We configure your UV sensor for intensities across 10 orders of magnitude from 1nW/cm² to 10W/cm². 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/cm² or, if not precisely known, range estimation 1nW/cm² 10μW/cm² 10μW/cm² 100mW/cm² 100mW/cm² 100mW/cm² 100mW/cm² 100mW/cm²						
Probe mechanical design overview Besides the ticked mechanical design of this datasheet other mechanical designs are available						
Type	Description					
UV-Surface Standard surface-mount 180° FOV UV Sensor						
UV-Air	UV-Air Standard axis oriented in-chamber UV Sensor					
UV-Cosine Waterproof UV Sensor for outdoor use						
UV-DVGW/-160 UV Sensor for ÖNORM/DVGW certified water purifiers (this datasheet)						
UV-MINILOG UV Datalogger with PC software						
TOCON-probe Pre-amplified UV Photodetector in a M12x1 housing, only with voltage output available						

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