

## UV-Water Probe with 0-5V Output UVC Photodiode (SiC)

Part Number: UV\_Water\_C\_AMP0-5V\_cable



Our probes of the **UV-Water** series are characterized by their 10bar water pressure resistance. They are well suited for measurements under water. The ¼" thread allows comfortable mounting at the measuring point.



UV\_Water\_C\_AMP0-5V\_cable

### Features of Typs UV\_Water\_C\_AMP0-5V\_cable :

- only for UVC measurement, e.g. for purification control, spectral sensitivity according to DVGW W294-3
- filtered, silicon carbide based UV photodiode for extreme radiation hardness
- integrated amplifier with 0..5V voltage output
- offset and amplification factor are adjustable
- stainless steel housing with 10bar water pressure resistance
- with ¼"-thread for comfortable mounting
- 2m shielded cable

Probes from the **UV-Water** series are available with the following details:

<i>Sensortype</i>	<i>Part Number</i>
with broadband photodiode	UV_Water_ABC_Design
with UVC photodiode DVGW W 294-3	UV_Water_C_Design
with Erythema Sensor DIN 5050 ISO 17166/CIE S 007/E	UV_Water_UV-Index_Design

<i>Design</i>	<i>Part Number</i>
with 4-20mA output and 2m cable	UV_Water_Sensortype_AMP4-20mA_cable
with 4-20mA output and 5 pin connector	UV_Water_Sensortype_AMP4-20mA_plug
with 0-5V output and 2m cable	UV_Water_Sensortype_AMP0-5V_cable
with 0-5V output and 5 pin connector	UV_Water_Sensortype_AMP0-5V_plug
without amplifier and with 2m cable	UV_Water_Sensortype_cable
without amplifier and with 5 pin connector	UV_Water_Sensortype_plug

Please consider the following probe series:

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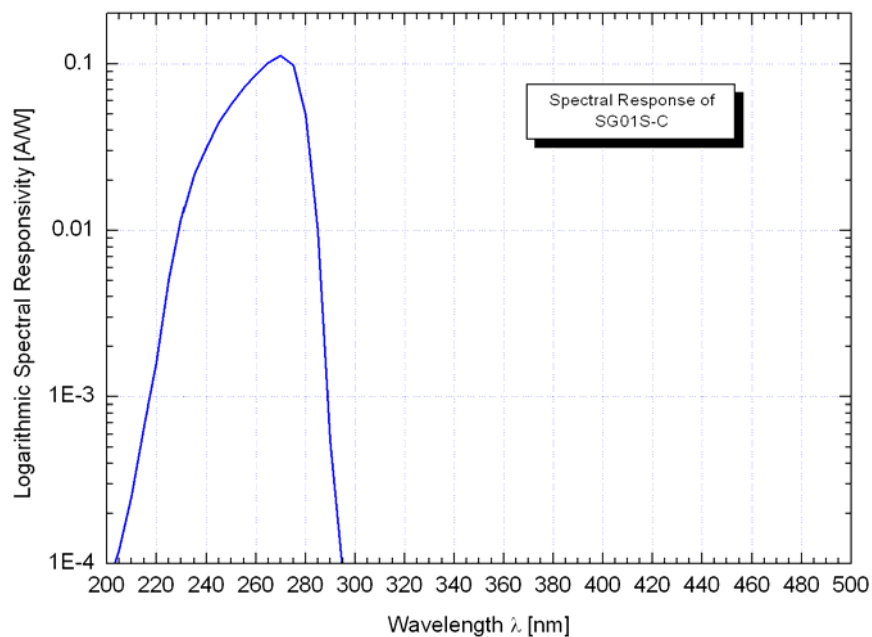


- UV-Air (compact stainless steel probe)
- UV-Cosine (with cosine correction and wide angle characteristics)
- UV-DVGW (probe according to DVGW W 294-3(2006))

### Technical Data ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Power supply	$V_B$	+7...24	V
Output signal	$V_{OUT}$	0...5	V
Power consumption	$I_{max}$	<30	mA
Linearity	L	2	%
Temperature drift	$\Delta T$	0,03	W/m <sup>2</sup> /K
Wavelength of max. sensitivity	$\lambda_{Smax}$	270	nm
Sensitivity range( $S=0.1*S_{max}$ )	–	230-285	nm

### Spectral Sensitivity (Photodiode SG01S-C18)

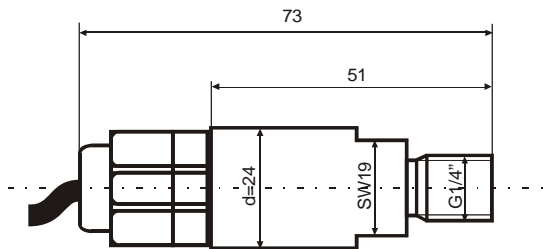


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### Dimensions



#### **configuration:**

brown:  $V_0$   
white:  $V_+$   
green: Signal