

# UV-Water Probe with 0-5V Output and Broadband SiC Photodiode

Part Number: UV\_Water\_ABC\_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 1/4" thread allows comfortable mounting at the measuring point.



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

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

- broadband UVA-UVB-UVC-measurement (see spectral curve p.2)
- Silicon Carbide based Photodiode (SiC) 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 1/4"-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 pole connector	UV_Water_Sensortype_plug

Please consider the following probe series:

# UV-Water Probe with 0-5V Output and Broadband SiC Photodiode

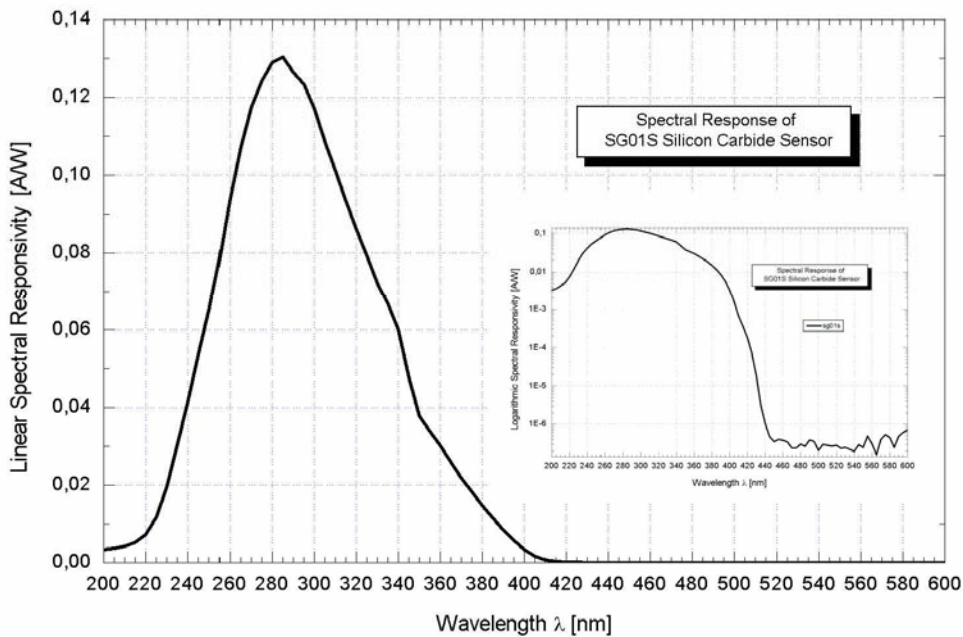
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- UV-Air (compact stainless steel probe)
- UV-Cosine (with cosine correction and wide angle characteristics)
- UV-DVGW (probe according to DVGW W 294-3(2006))

## Technical Data (T<sub>a</sub> = 25 °C)

Parameter	Symbol	Value	Unit
Power supply	V <sub>B</sub>	+7...24	V
Output signal	V <sub>OUT</sub>	0...5	V
Power consumption	I <sub>max</sub>	<30	mA
Linearity	L	2	%
Temperature drift	ΔT	0,03	W/m <sup>2</sup> /K
Wavelength of max. sensitivity	λ <sub>Smax</sub>	285	nm
Sensitivity range(S=0.1*S <sub>max</sub> )	–	225 - 380	nm

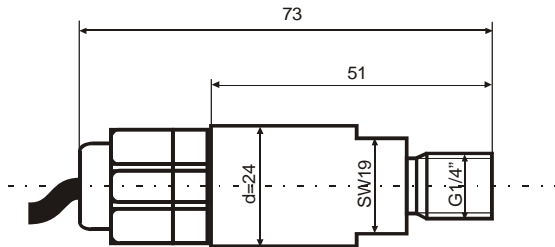


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## Dimensions



### configuration:

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