

UV-Water Probe with 4-20mA Output and Broadband SiC Photodiode

Part Number: UV_Water_ABC_AMP4-20mA_plug



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_ABC_AMP4-20mA_plug

Features of Typs UV_Water_ABC_AMP4-20mA_plug :

- 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 ¼"-thread for comfortable mounting
- 5 pin sensor connector (connection e.g. Hirschmann ELKA 5012)
- customized cable available

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

Sensortype	Part Number
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

Design	Part Number
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

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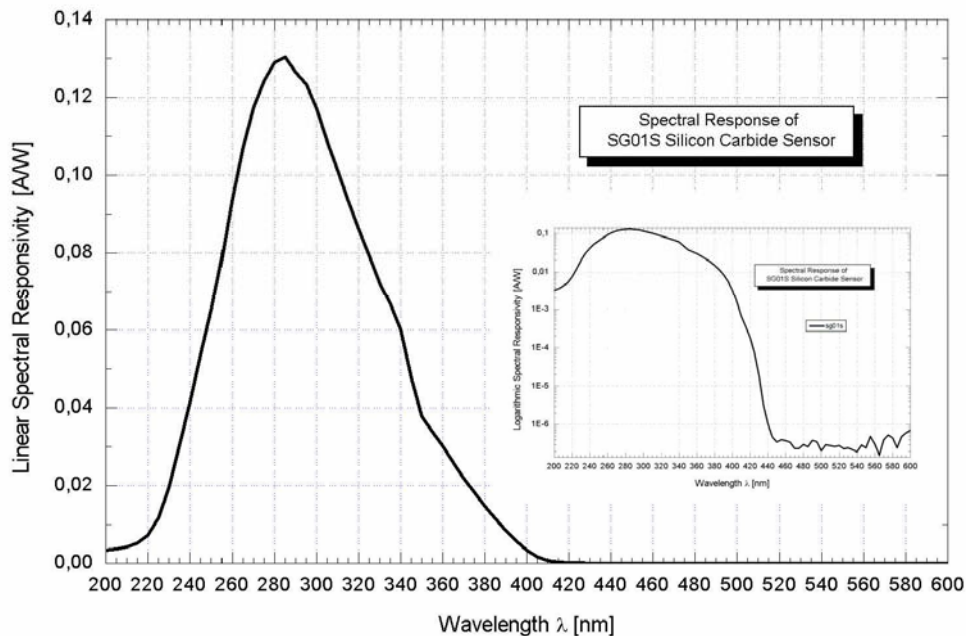
Please consider the following probe series:

- 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	24	V
Output signal	I_{OUT}	4...20	mA
Power consumption	I_{max}	<30	mA
Linearity	L	2	%
Temperature drift	ΔT	0,03	$W/m^2/K$
Wavelength of max. sensitivity	λ_{Smax}	285	nm
Sensitivity range($S=0.1*S_{max}$)	—	225 - 380	nm

Spectral Sensitivity (Photodiode SG01S)



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Dimensions

