

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

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 ¼" thread allows comfortable mounting at the measuring point.

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 ¼"-thread for comfortable mounting**
- **2m shielded cable**

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

Sensor type	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 pole connector	UV_Water_Sensortype_plug

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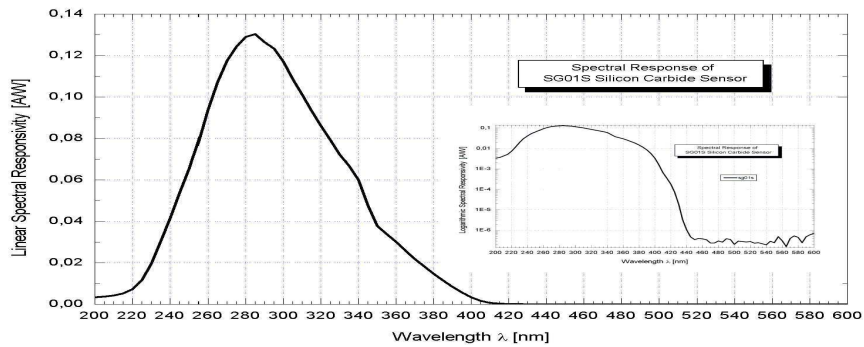
Please consider the following probe series:

- 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))

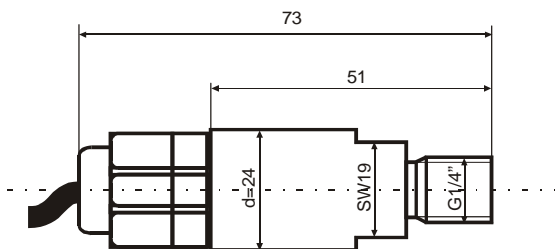
Technical Data (T_a = 25 °C)

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	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)



Dimensions



Configuration:

Brown: V₀
 White: V₊
 Green: Signal