

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

UV_Water_ABC_AMP4-20mA_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_AMP4-20mA_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 pin connector	UV_Water_Sensortype_plug

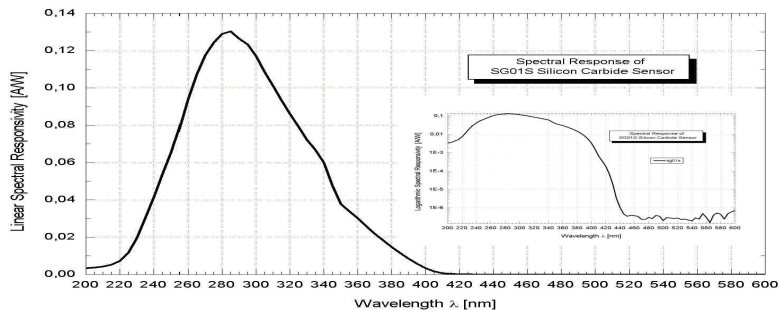
Please consider the following probe series:

- 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))

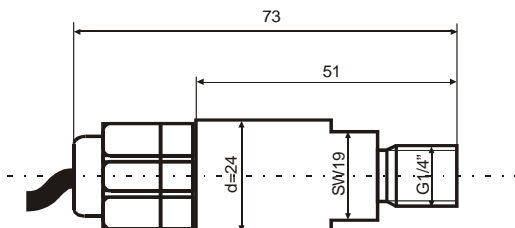
Technical Data ($T_a = 25\text{ }^\circ\text{C}$)

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 ($S=0.1 \cdot S_{max}$)	–	225 - 380	nm

Spectral Sensitivity (Photodiode SG01S)



Dimensions



Configuration:

Brown: 0
 White: V_+