

UV-Water Probe with Broadband SiC Photodiode

UV_Water_ABC_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_cable:

- **Broadband UVA-UVB-UVC-measurement (see spectral curve p.2)**
- **Silicon Carbide based Photodiode (SiC) for extreme radiation hardness**
- **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))

UV-Water Probe with Broadband SiC Photodiode

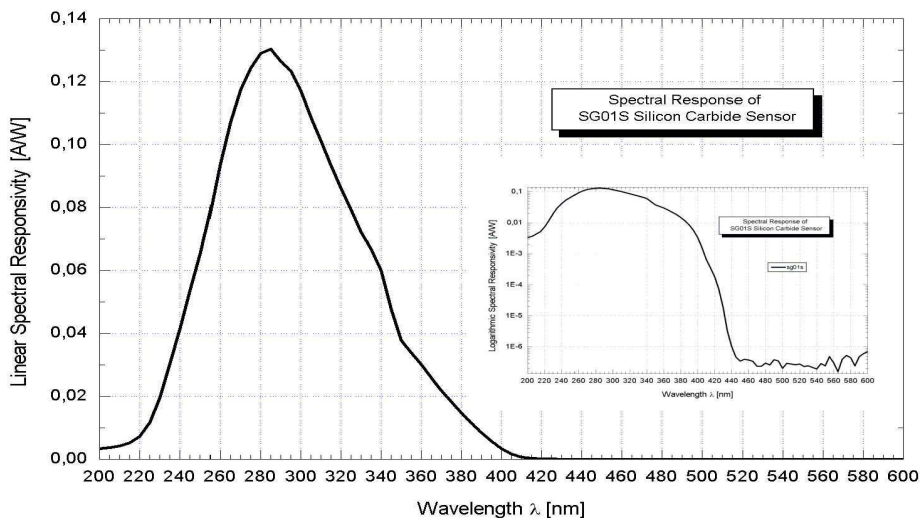
UV_Water_ABC_cable



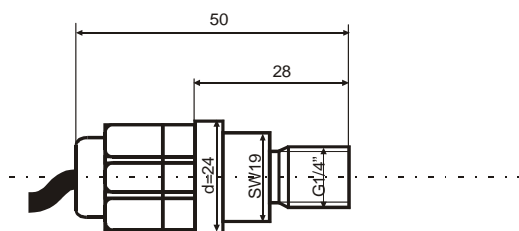
Technical Data (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Operating temperature range	T _{opt}	-25...+70	°C
Reverse voltage	V _{Rmax}	20	V
Active area	A	0,054	mm ²
Dark current at 1 V reverse bias	I _d	1	fA
Capacitance	C	21	pF
Short circuit current at 1mW/cm ²	I ₀	ca. 70	nA
Max. Spectral sensitivity	S _{max}	0,13	AW ⁻¹
Wavelength of max. Spectral sensitivity	λ _{Smax}	285	nm
Range of spectral sensitivity (S=0.1*S _{max})	–	225 - 380	nm

Spectral Sensitivity (Photodiode SG01S)



Dimensions



Configuration:

Brown: -
White: +