

# UV-Water Probe with Broadband SiC Photodiode

Part Number: 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 1/4" thread allows comfortable mounting at the measuring point.



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

## 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 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 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

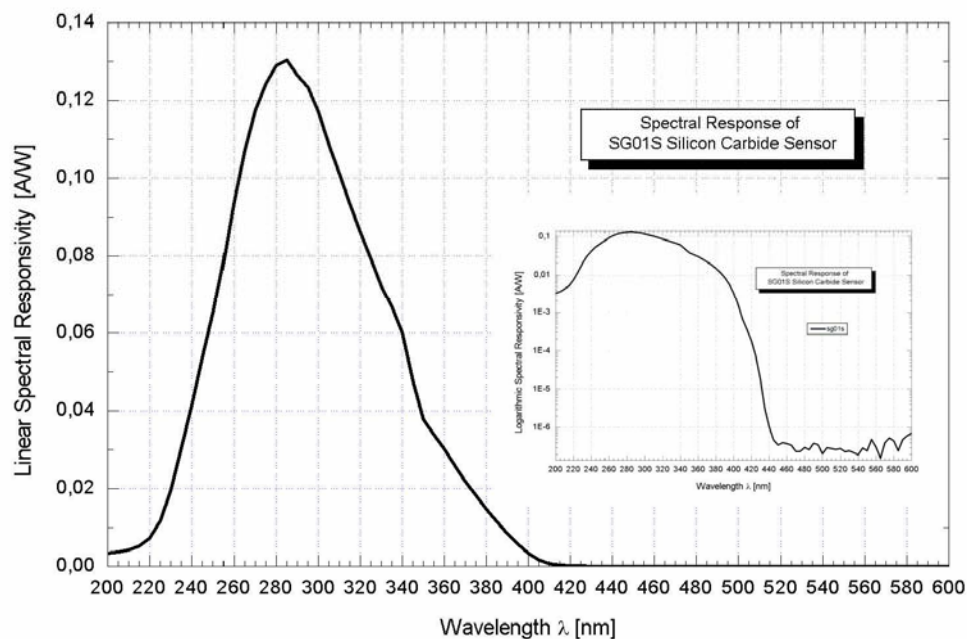
Part Number: UV\_Water\_ABC\_cable



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

Parameter	Symbol	Value	Unit
Operating temperature range	T <sub>opt</sub>	-25...+70	°C
Reverse voltage	V <sub>Rmax</sub>	20	V
Active area	A	0,054	mm <sup>2</sup>
Dark current at 1 V reverse bias	I <sub>d</sub>	1	fA
Capacitance	C	21	pF
Short circuit current at 1mW/cm2	I <sub>0</sub>	ca. 70	nA
Max. spectral sensitivity	S <sub>max</sub>	0,13	AW <sup>-1</sup>
Wavelength of max. spectral sensitivity	λ <sub>Smax</sub>	285	nm
Range of spectral sensitivity (S=0.1*Smax)	-	225 - 380	nm

## Spectral Sensitivity (Photodiode SG01S)

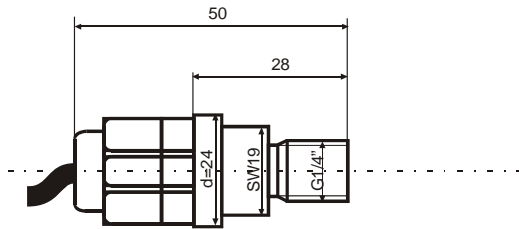


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## Dimensions



### configuration:

brown: -  
white: +