

UV-Water Probe with UVC Photodiode (SiC)

Part Number: UV_Water_C_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.



UV_Water_C_AMP0-5V_cable

Features of Typs UV_Water_C_cable :

- only for UVC measurement, e.g. for purification control, spectral sensitivity according to DVGW W294-3
- filtered, silicon carbide based UV photodiode 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:

| 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 |

Please consider the following probe series:

- UV-Air (compact stainless steel probe)
- UV-Cosine (with cosine correction and wide angle characteristics)

UV-Water Probe with UVC Photodiode (SiC)

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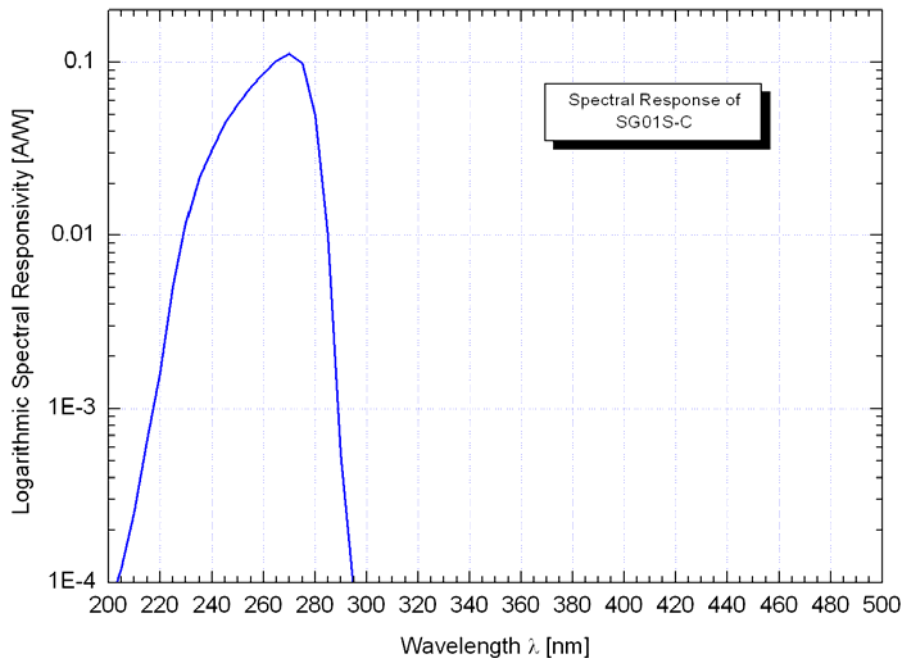


- UV-DVGW (probe according to DVGW W 294-3(2006))

Technical Data (T_a = 25 °C)

| Parameter | Symbol | Value | Unit |
|--|-------------------|------------|------------------|
| Operating temperature range | T _{opt} | -25....+80 | °C |
| Reverse voltage | V _{Rmax} | 20 | V |
| Filter aperture | D | 2,1 | Mm |
| Filter aperture area | a | 3,46 | mm ² |
| 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/cm2 | I ₀ | ca. 350 | nA |
| Max. spectral sensitivity | S _{max} | 0,11 | AW ⁻¹ |
| Wavelength of max. spectral sensitivity | λ _{Smax} | 270 | nm |
| Range of spectral sensitivity (S=0.1*Smax) | - | 230 – 285 | nm |

Spectral Sensitivity (Photodiode SG01S-C18)



Country of origin : Germany

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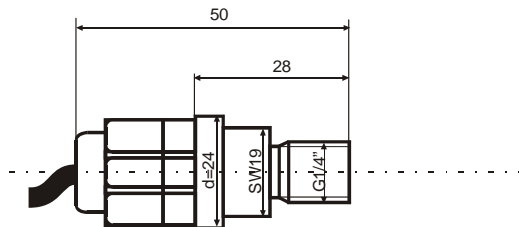
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UV-Water Probe with UVC Photodiode (SiC)

Part Number: UV_Water_C_cable

Dimensions



configuration:

brown: -
white: +

Country of origin : Germany

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