

UV-Water Probe with UVC Photodiode (SiC)

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.

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:

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))

For Prices, delivery and to place an order, please contact Scitec Instruments Ltd at Scitec Instruments Ltd, Bartles Industrial Estate, North Street, Redruth, Cornwall, England TR15 1HR
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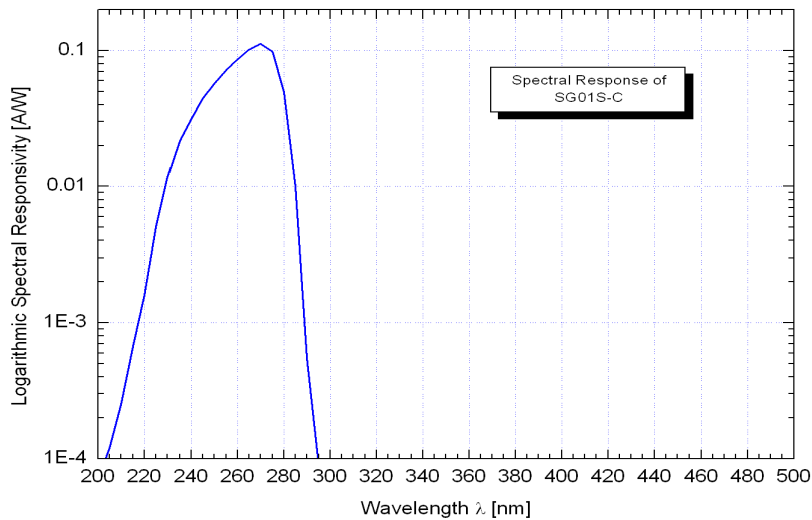
UV_Water_C_cable



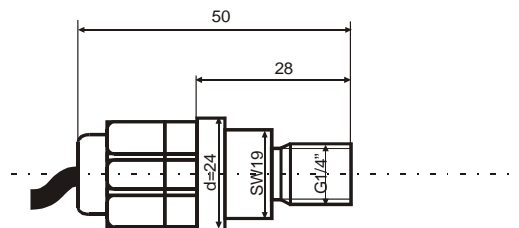
Technical Data ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Operating temperature range	T_{opt}	-25...+80	$^\circ\text{C}$
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 ($S=0.1*S_{max}$)	–	230 – 285	nm

Spectral Sensitivity (Photodiode SG01S-C18)



Dimensions



Configuration:

Brown: -
White: +

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