

UV-Air Probe with a Silicon Carbide UVC Photodiode

UV_Air_C_cable



Features of UV_Air_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
- With M14 thread for comfortable mounting
- Handy and solid stainless steel housing, IP65 at back
- With Teflon diffuser for cosine correction
- 2m shielded cable

Probes from the **UV-Air** series are available with the following details:

Sensor type	Part Number
With broadband photodiode	UV_Air_ABC_Design
With UVC photodiode DVGW W 294-3	UV_Air_C_Design
With Erythema Sensor DIN 5050 ISO 17166/CIE S 007/E	UV_Air_UV-Index_Design

Design	Part Number
With 4-20mA output and 2m cable	UV_Air_Sensortype_AMP4-20mA_cable
With 4-20mA output and 5 pin connector	UV_Air_Sensortype_AMP4-20mA_plug
With 0-5V output and 2m cable	UV_Air_Sensortype_AMP0-5V_cable
With 0-5V output and 5 pin connector	UV_Air_Sensortype_AMP0-5V_plug
Without amplifier	UV_Air_Sensortype_cable

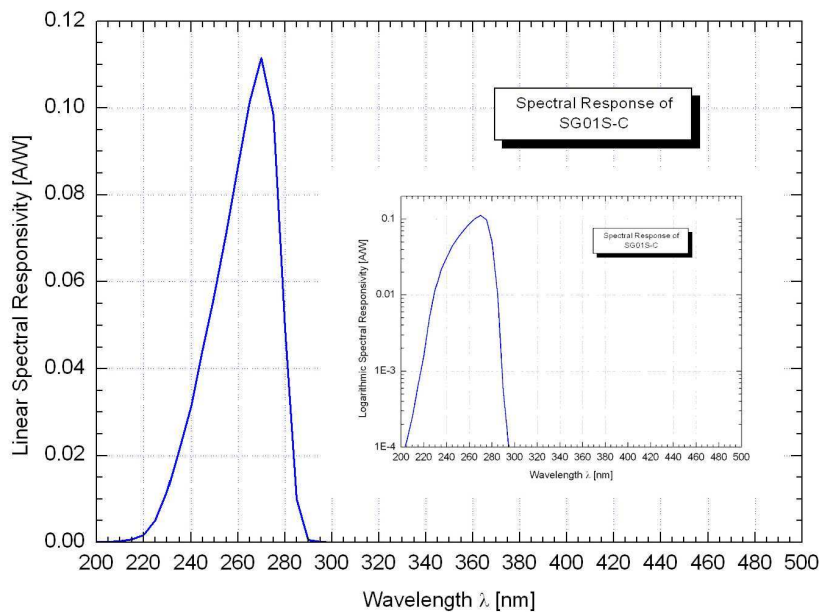
Please consider the following probe series:

- UV-Water (10bar water pressure resistant)
- UV-Cosine (with wide angle characteristic, cosine correction)
- UV-DVGW (probe compliant to DVGW W 294-3(2006))

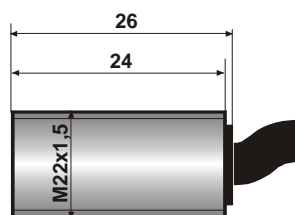
Technical Data ($T_a = 25\text{ °C}$)

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 ($S=0.1*S_{max}$)	–	225 – 285	nm

Spectral Sensitivity (photodiode SG01S-C18)



Dimensions



Configuration:

- Brown: -
- White: +