

UV-Air[®] Probe with a Silicon Carbide UVC Photodiode

Part Number: UV_Air_C_cable



Our probes from the **UV-Air[®]** series are characterized by a solid and compact design. A male thread allows various mounting possibilities at the measuring point.



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:

<i>Sensortype</i>	<i>Part Number</i>
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

<i>Design</i>	<i>Part Number</i>
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))

UV-Air[®] Probe with a Silicon Carbide UVC Photodiode

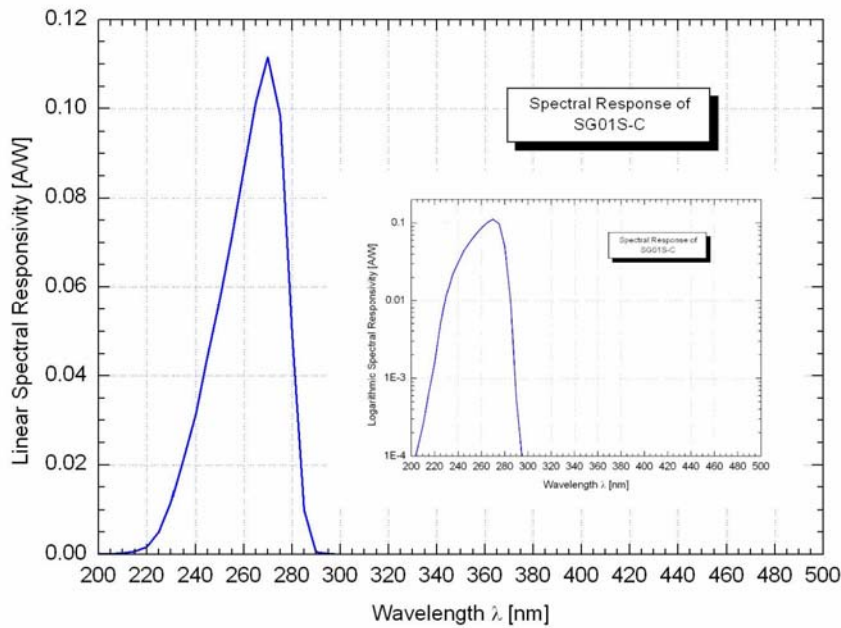
Part Number: UV_Air_C_cable



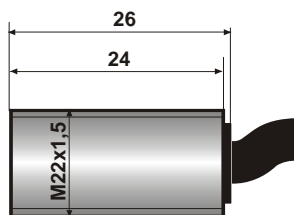
Technical Data (T_a = 25 °C)

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)	–	225 – 285	nm

Spectral Sensitivity (photodiode SG01S-C18)



Dimensions



configuration:

brown: -
white: +

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