

## UV-Cosine Probe with 4-20mA Output and UVC Photodiode (SiC)

UV\_Cosine\_C\_AMP4-20mA\_plug



### Features of UV\_Cosine\_C\_AMP4-20mA\_plug:

- 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
- Integrated amplifier with 4...20mA output
- Offset and amplification factor are adjustable
- With M20x1,5 thread for comfortable mounting
- Special housing with wide angle characteristics
- IP65 jet water resistance
- 5 pin sensor connector (connection e.g. Hirschmann ELKA 5012)
- Delivery with mounting set (locknuts and sealing ring)
- Customized cable available

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

Sensortype	Part Number
With broadband photodiode	UV_Cosine_ABC_Design
With UVC Photodiode according to DVGW W 294-3	UV_Cosine_C_Design
With erythema sensor DIN5050 ISO17166/CIE S 007/E	UV_Cosine_UV-Index_Design

Design	Part Number
With 4-20mA output and 2m cable	UV_Cosine_Sensortype_AMP4-20mA_cable
With 4-20mA output and 5-pin sensor connector	UV_Cosine_Sensortype_AMP4-20mA_plug
With 0-5V output and 2m cable	UV_Cosine_Sensortype_AMP0-5V_cable
With 0-5V output and 5-pin sensor connector	UV_Cosine_Sensortype_AMP0-5V_plug

Please consider the following probe series:

- UV-Air (compact stainless steel probe)
- UV-Water (10bar water pressure resistant)
- UV-DVGW (probe compliant to DVGW W 294-3(2006))

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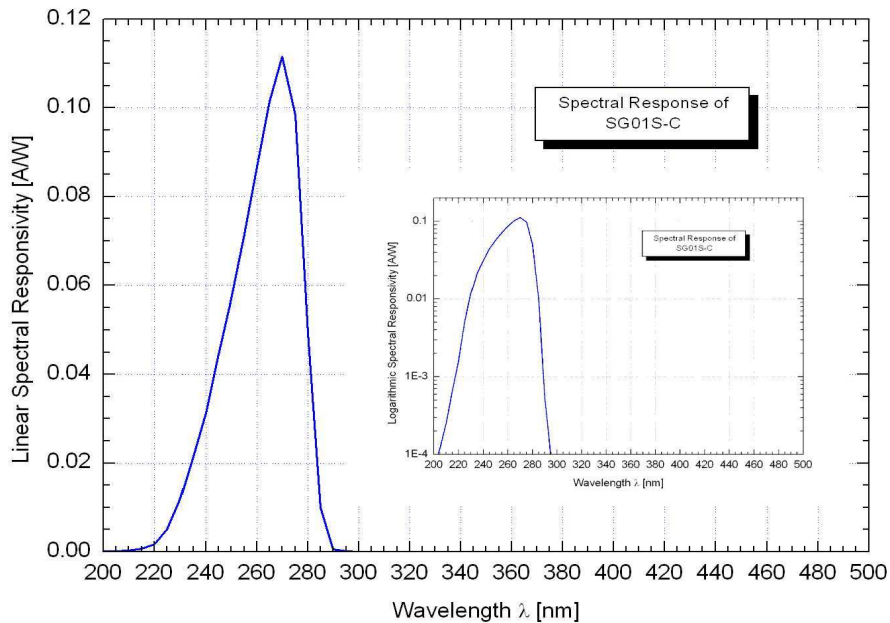
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## Technical Data ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Power supply	$V_B$	24	V
Output signal	$I_{OUT}$	4...20	mA
Power consumption	$I_{max}$	<30	mA
Linearity	L	2	%
Temperature drift	$\Delta T$	0,03	W/m <sup>2</sup> /K
Wavelength of max. Sensitivity	$\lambda_{Smax}$	270	nm
Sensitivity range ( $S=0.1 \cdot S_{max}$ )	-	230 – 285	nm

## Spectral Sensitivity (photodiode SG01S-C-18)



## Dimensions

