

UV-Cosine Probe with 4-20mA Output and Broadband SiC Photodiode

Part Number: UV_Cosine_ABC_AMP4-20mA_plug



Features of UV_Cosine_ABC_AMP4-20mA_plug:

- **Broadband UVA-UVB-UVC-measurement (see spectral curve p.2)**
- **Integrated amplifier with 4...20mA output**
- **Offset and amplification factor are adjustable**
- **With M20x1,5 thread for comfortable mounting**
- **Silicon Carbide (SiC) based Photodiode for extreme radiation hardness**
- **Special housing with wide angle characteristics**
- **IP65 jet water resistance**
- **5 pin sensor connector (connection e.g. Hirschmann ELKA 5012)**
- **Customized cable available**
- **Delivery with mounting set (locknuts and sealing ring)**

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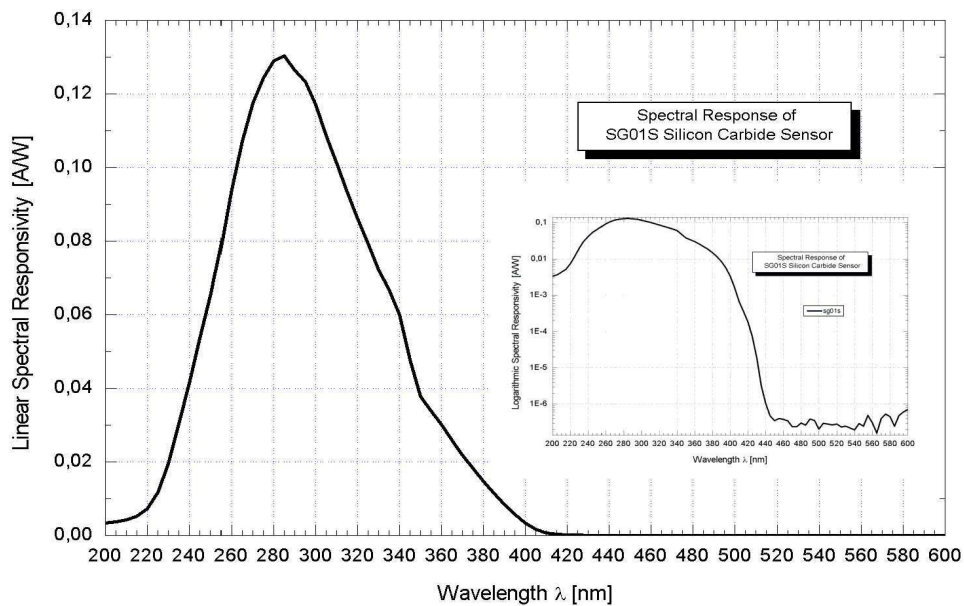
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Technical Data ($T_a = 25\text{ }^\circ\text{C}$)

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	ΔT	0,03	W/m ² /K
Wavelength of max. Sensitivity	λ_{Smax}	285	nm
Sensitivity range ($S=0.1 \cdot S_{max}$)	–	225 - 380	nm

Spectral Sensitivity (photodiode SG01S)



Dimensions

