

UV-Cosine Probe with 0-5V Output and Broadband SiC Photodiode

UV_Cosine_ABC_AMP0-5V_cable



Features of UV_Cosine_ABC_AMP0-5V_cable:

- **Broadband UVA-UVB-UVC-measurement (see spectral curve p.2)**
- **Integrated amplifier with 0.5V voltage 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**
- **2m shielded cable**
- **Delivery with mounting set (locknuts and sealing ring)**

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

Sensor type	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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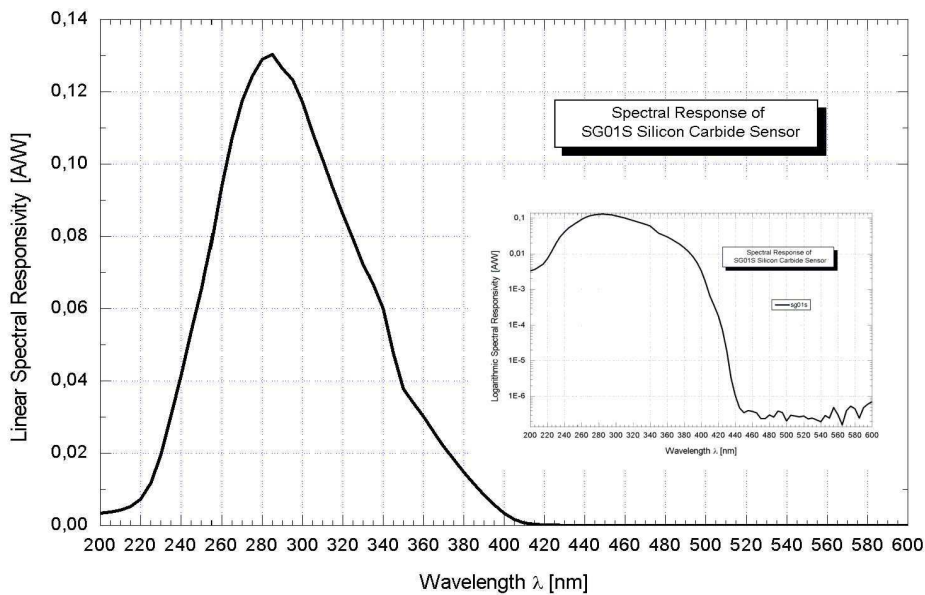
UV_Cosine_ABC_AMP0-5V_cable



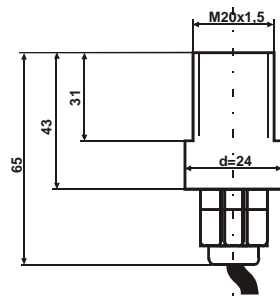
Technical Data (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Power supply	V _B	+7...24	V
Output signal	V _{OUT}	0...5	V
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*S _{max})	–	225 - 380	nm

Spectral Sensitivity (Photodiode SG01S)



Dimensions



Configuration:

Brown: V₀
 White: V₊
 Green: signal