

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

Part Number: UV_Cosine_ABC_AMP0-5V_cable



Our probes from the series **UV-Cosine** are characterized by a special housing with wide angle characteristics (cosine correction). The probes are IP65 jet water resistant, have a soil-resisting surface and are easy to mount.



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:

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

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

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

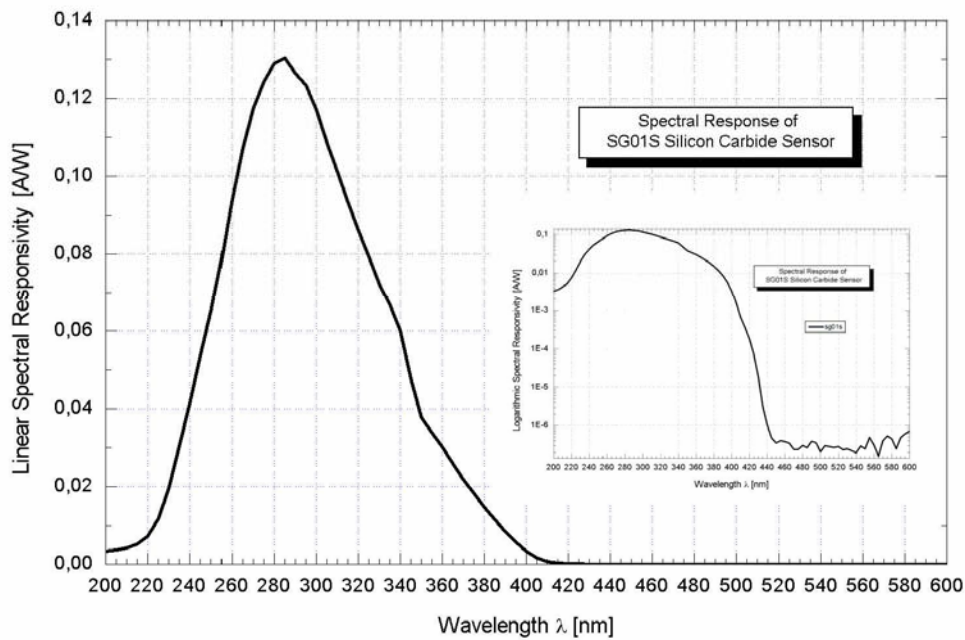
Part Number: UV_Cosine_ABC_AMP0-5V_cable



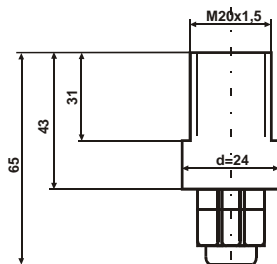
Technical Data (T_a = 25 °C)

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