

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

Part Number: UV_Cosine_C_AMP4-20mA_plug



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_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:

<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 4-20mA Output and UVC Photodiode (SiC)

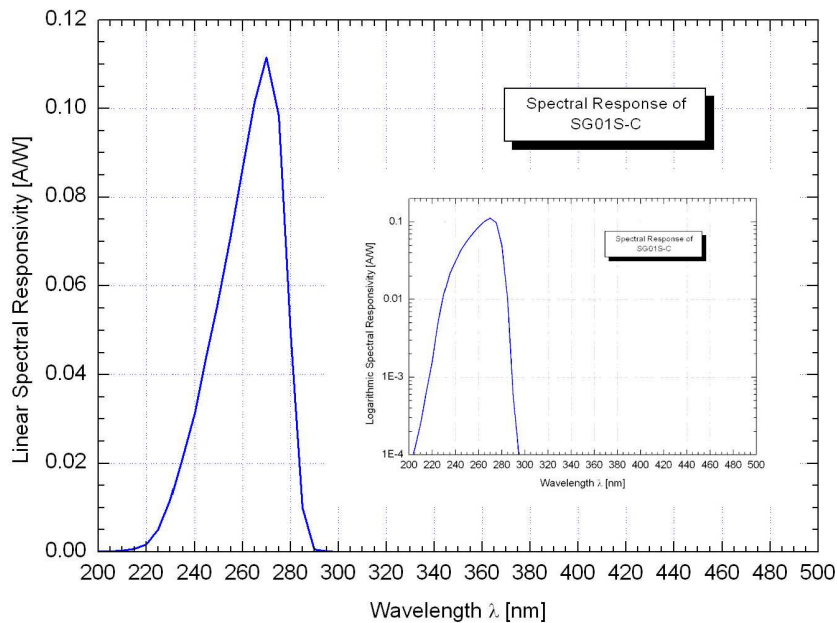
Part Number: UV_Cosine_C_AMP4-20mA_plug



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}	270	nm
Sensitivity range($S=0.1 \cdot S_{max}$)	–	230 – 285	nm

Spectral Sensitivity (photodiode SG01S-C-18)



Dimensions

