

# UV-Cosine Probe with 0-5V Output UVC Photodiode (SiC)

Part Number: UV\_Cosine\_C\_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\_C\_AMP0-5V\_cable

## Features of UV\_Cosine\_C\_AMP0-5V\_cable :

- 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 0..5V voltage output
- offset and amplification factor are adjustable
- with M20x1,5 thread for comfortable mounting
- 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<sup>®</sup> (compact stainless steel probe)
- UV-Water (10bar water pressure resistant)

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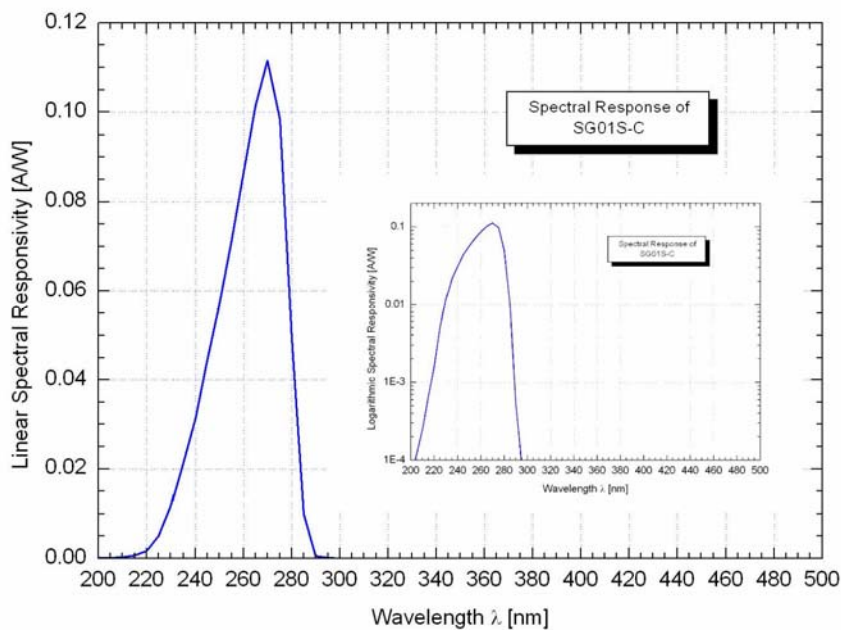


- UV-DVGW (probe compliant to DVGW W 294-3(2006))

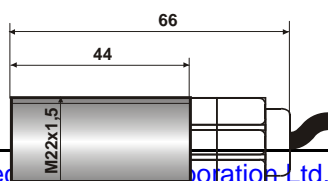
## Technical Data (T<sub>a</sub> = 25 °C)

| Parameter                                  | Symbol            | Value     | Unit                |
|--|-------------------|-----------|---------------------|
| Power supply                               | V <sub>B</sub>    | +7...24   | V                   |
| Output signal                              | V <sub>OUT</sub>  | 0...5     | V                   |
| Power consumption                          | I <sub>max</sub>  | <30       | mA                  |
| Linearity                                  | L                 | 2         | %                   |
| Temperature drift                          | ΔT                | 0,03      | W/m <sup>2</sup> /K |
| Wavelength of max. sensitivity             | λ <sub>Smax</sub> | 270       | nm                  |
| Sensitivity range(S=0.1*S <sub>max</sub> ) | -                 | 230 – 285 | nm                  |

## Spectral Sensitivity (Photodiode SG01S-C18)



## Dimensions



### configuration:

brown: V<sub>0</sub>  
white: V<sub>+</sub>  
green: signal

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