

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

UV_Cosine_ABC_AMP4-20mA_cable



Features of UV_Cosine_ABC_AMP4-20mA_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 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
- 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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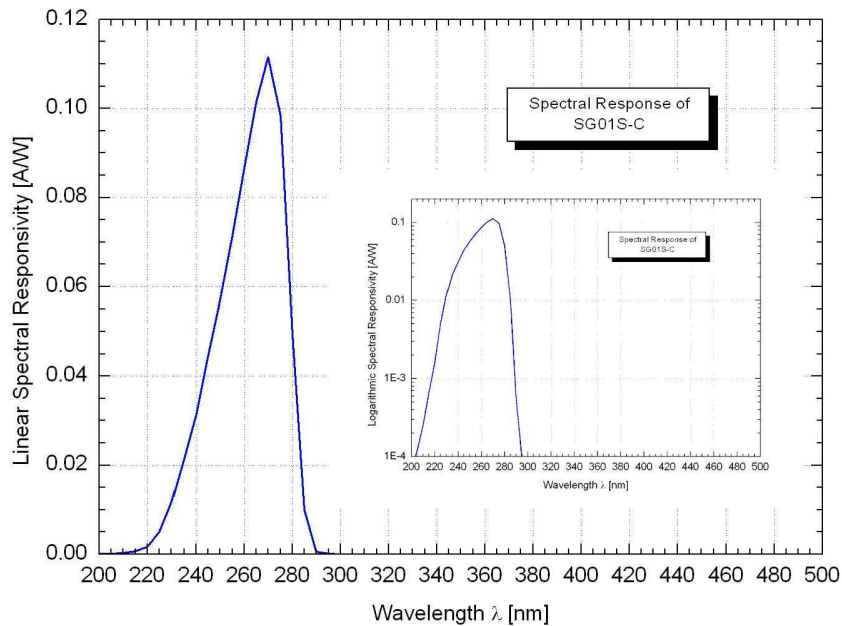
UV_Cosine_ABC_AMP4-20mA_cable



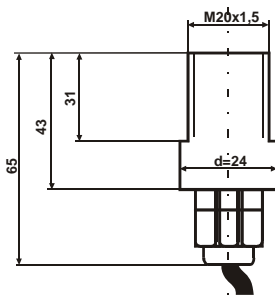
Technical Data (T_a = 25 °C)

| 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*S _{max}) | – | 230 – 285 | nm |

Spectral Sensitivity (photodiode SG01S-C-18)



Dimensions



Configuration:

Brown: 0
White: V₊