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

Part Number: UV_Cosine_ABC_AMP0-5V_plug

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

UV_Cosine_ABC_AMP0-5V_plug

Features of UV_Cosine_ABC_AMP0-5V_plug :

- **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 based Photodiode (SiC) for extreme radiation hardness**
- **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:

Sensortype	*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 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 connector	UV_Cosine_*Sensortype*_AMP0-5V_plug

Please consider the following probe series:

- UV-Air® (compact stainless steel probe)

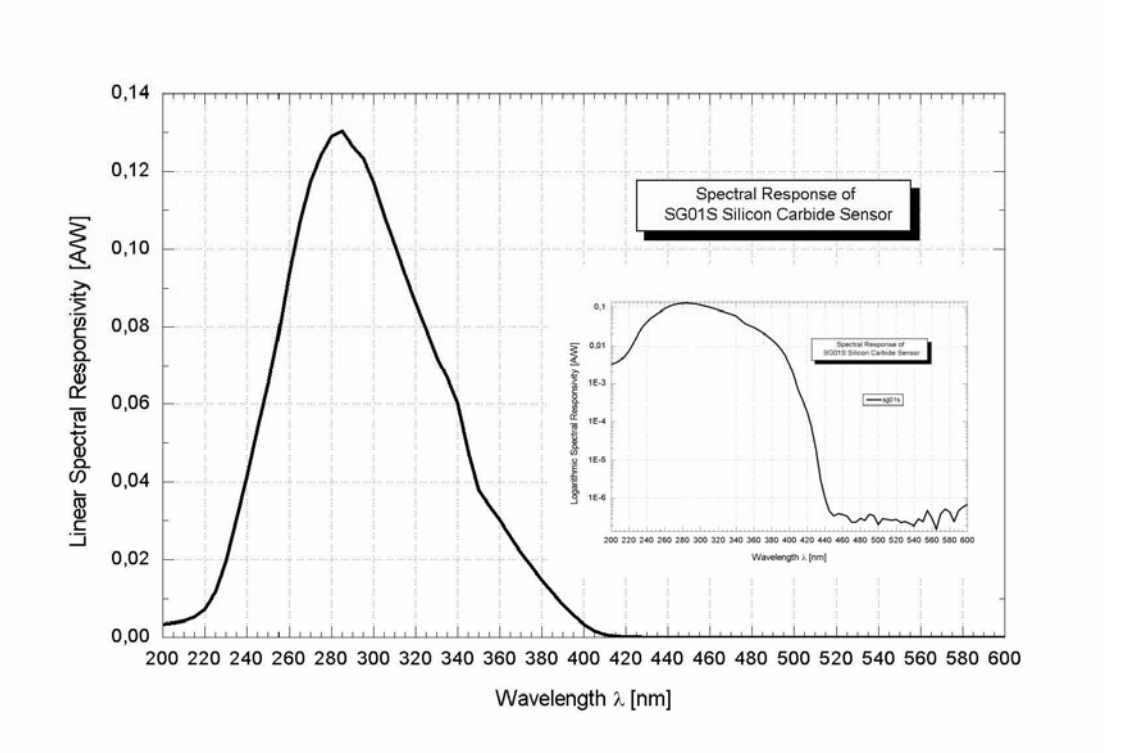
PRC Technologies Corporation Ltd.
328/65 Ladprao 87 Rd,Wangthonglang, Bangkok 10310
T: 02 530-1714, 530-1619, 530-1621; F:+662 530-1731 www.prctechnologies.co.th

- UV-Water (10bar water pressure resistant)
- UV-DVGW (probe compliant to DVGW W 294-3(2006))

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)



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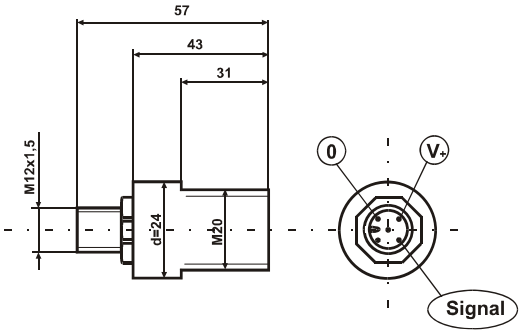
Dimensions



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