

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

Part Number: UV_Air_ABC_AMP0-5V_cable



Our probes from the **UV-Air®** series are characterized by a solid and compact design. A male thread allows various mounting possibilities at the measuring point.



UV_Air_ABC_AMP0-5V_cable

Features of UV_Air_ABC_AMP0-5V_cable :

- integrated amplifier with 0..5V voltage output
- offset and amplification factor are adjustable
- broadband UVA-UVB-UVC-measurement (see spectral curve p.2)
- with M22 thread for comfortable mounting
- Silicon Carbide based Photodiode (SiC) for extreme radiation hardness
- with teflon diffuser for cosine correction
- handy and solid stainless steel housing, IP65 at back
- 2m shielded cable

Probes from the **UV-Air®** series are available with the following details:

<i>Sensortype</i>	<i>Part Number</i>
with broadband photodiode	UV_Air_ABC_Design
with UVC photodiode DVGW W 294-3	UV_Air_C_Design
with Erythema Sensor DIN 5050 ISO 17166/CIE S 007/E	UV_Air_UV-Index_Design

<i>Design</i>	<i>Part Number</i>
with 4-20mA output and 2m cable	UV_Air_Sensortype_AMP4-20mA_cable
with 4-20mA output and 5 pin connector	UV_Air_Sensortype_AMP4-20mA_plug
with 0-5V output and 2m cable	UV_Air_Sensortype_AMP0-5V_cable
with 0-5V output and 5 pin connector	UV_Air_Sensortype_AMP0-5V_plug
without amplifier	UV_Air_Sensortype_cable

Please consider the following probe series:

- UV-Water (10bar water pressure resistant)
- UV-Cosine (with wide angle characteristic, cosine correction)

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

UV-Air[®] Probe with 0-5V Output and Broadband SiC Photodiode

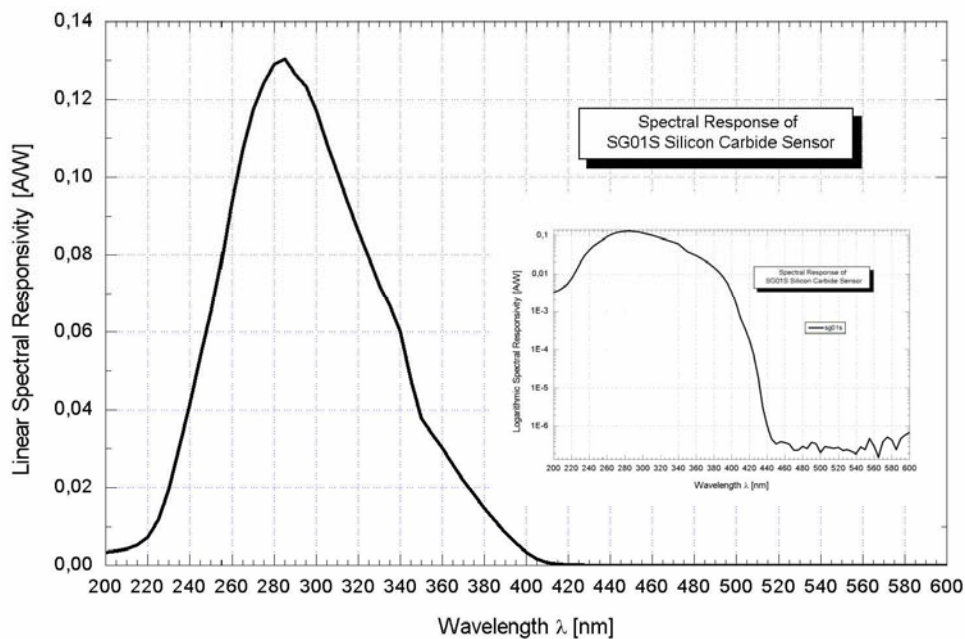
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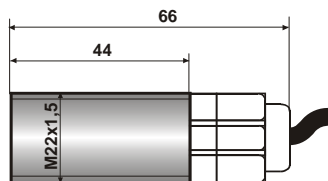
Technical Data (T_a = 25 °C)

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