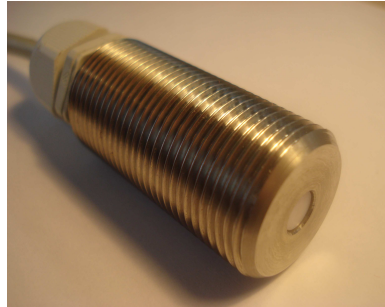


# UV-Air Probe with 0-5V Output and Broadband SiC Photodiode

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**<sup>®</sup> series are available with the following details:

Sensor type	Part Number
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

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

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

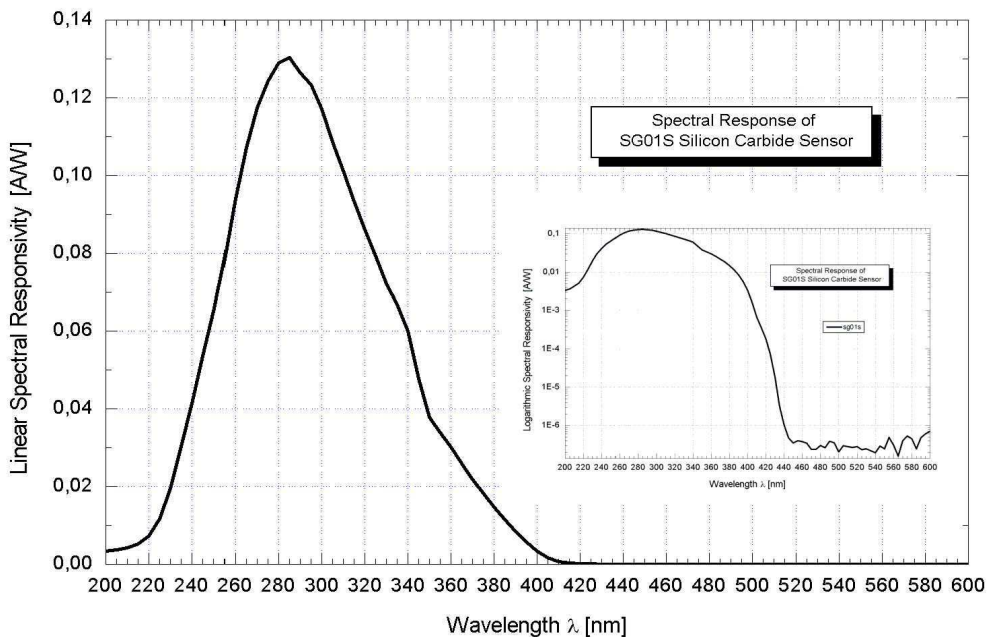
UV\_Air\_ABC\_AMP0-5V\_cable



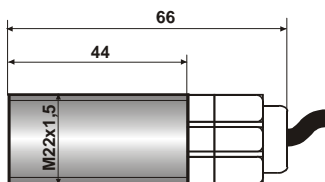
## Technical Data ( $T_a = 25\text{ }^\circ\text{C}$ )

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	$\Delta T$	0,03	W/m <sup>2</sup> /K
Wavelength of max sensitivity	$\lambda_{Smax}$	285	nm
Sensitivity range ( $S=0.1 \cdot S_{max}$ )	–	225 - 380	nm

## Spectral Sensitivity (photodiode SG01S)



## Dimensions



### Configuration:

Brown:  $V_0$   
 White:  $V_+$   
 Green: signal