

## UV-Air Probe with a Silicon Carbide (SiC) Photodiode

UV\_Air\_ABC\_cable



### Features of UV\_Air\_ABC\_cable:

- **Broadband UVA-UVB-UVC-measurement (see spectral curve p.2)**
- **With M14 thread for comfortable mounting**
- **Silicon Carbide based Photodiode (SiC) for extreme radiation hardness**
- **Handy and solid stainless steel housing, IP65 at back**
- **With Teflon diffuser for cosine correction**
- **2m shielded cable**

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

<b>Sensor type</b>	<b>Part Number</b>
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

<b>Design</b>	<b>Part Number</b>
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

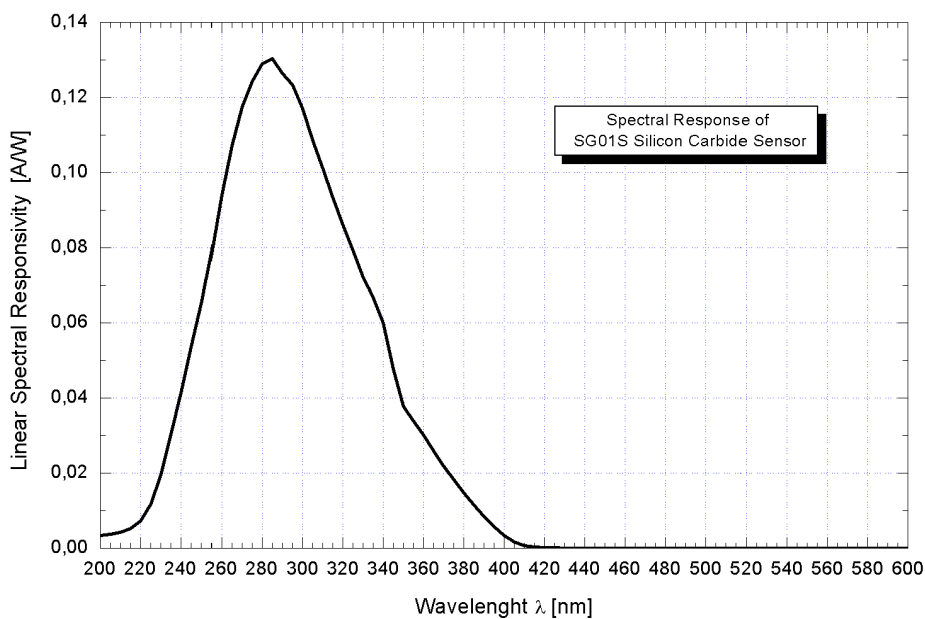
Please consider the following probe series:

- UV-Water (10bar water pressure resistant)
- UV-Cosine (with wide angle characteristic, cosine correction)
- UV-DVGW (probe compliant to DVGW W 294-3(2006))

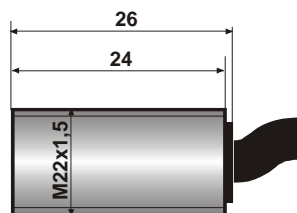
**Technical Data** ( $T_a = 25\text{ °C}$ )

Parameter	Symbol	Value	Unit
Operating temperature range	$T_{opt}$	-25....+70	°C
Reverse voltage	$V_{Rmax}$	20	V
Active area	A	0,054	mm <sup>2</sup>
Dark current at 1 V reverse bias	$I_d$	1	fA
Capacitance	C	21	pF
Short circuit current at 1mW/cm2	$I_0$	ca. 70	nA
Max. spectral sensitivity	$S_{max}$	0,13	AW <sup>-1</sup>
Wavelength of max. Spectral sensitivity	$\lambda_{Smax}$	285	nm
Range of spectral sensitivity ( $S=0.1*S_{max}$ )	–	225 - 380	nm

**Spectral Sensitivity (photodiode SG01S)**



**Dimensions**



**configuration:**

brown: -  
 white: +