

## UV\_DVGW Probe according to DVGW W294 part 3

UV-DVGW\_C\_AMP4-20mA\_plug



The sensor probes from the UV-DVGW series are designed to measure and monitor irradiance levels in UV water purification facilities. The sensor fulfils the latest rules of DVGW (W294 part 3, 2006). The probe is equipped with a Silicon Carbide UV photodiode which guarantees extreme radiation hardness.

### Features of UV\_DVGW\_C\_AMP4-20mA:

- **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**
- **Stainless steel housing with 10bar water pressure resistance**
- **5 pin sensor connector (connection e.g. Hirschmann ELKA 5012)**
- **Customized cable available**

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

<b>Design</b>	<b>Part Number</b>
With 4-20mA output and 2m cable	UV_DVGW_C_AMP4-20mA_cable
With 4-20mA output and 5 pole connector	UV_DVGW_C_AMP4-20mA_plug
With 0-5V output and 2m cable	UV_DVGW_C_AMP0-5V_cable
With 0-5V output and 5 pole connector	UV_DVGW_C_AMP0-5V_plug

Please consider the following probe series:

- UV-Air (compact stainless steel probe)
- UV-Cosine (with cosine correction and wide angle characteristics)
- UV-Water (probe with 10bar pressure water resistance)

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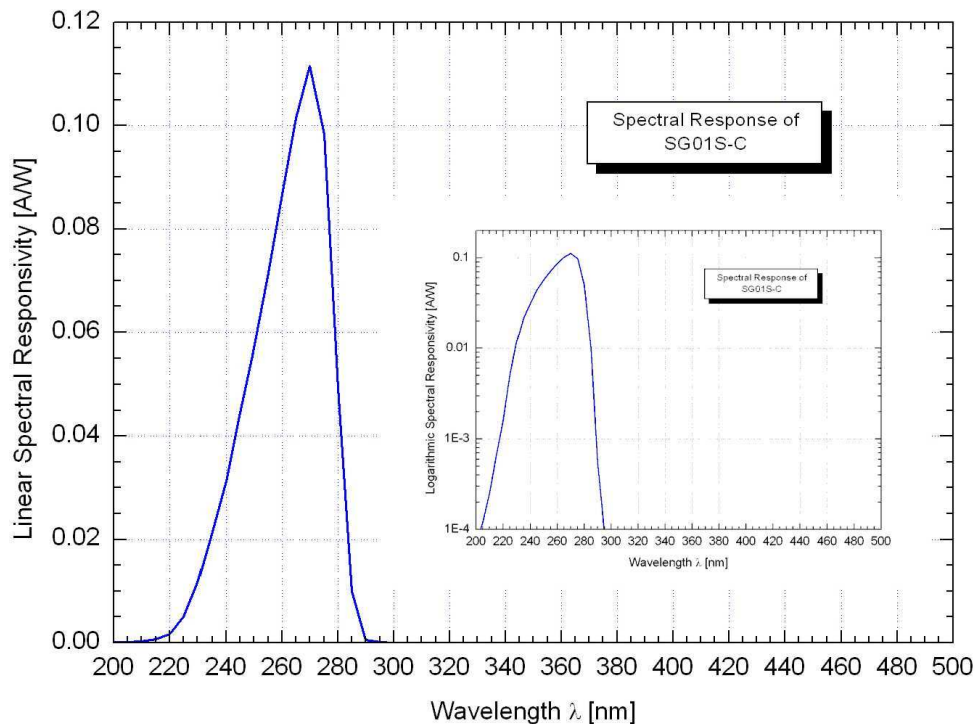


## Technical Data

Parameter	Symbol	Value	Unit
Supply Voltage	$V_B$	24	V
Signal Output	$I_{OUT}$	4...20	mA
Current consumption	$I_{max}$	<30	mA
Linearity (output range)	L	1	%
Temperature Drift	$\Delta T$	0,03	W/m <sup>2</sup> /K
Viewing Angle	$\epsilon$	40	°

**Calibration:** As default value the offset at zero radiation is 4mA.

## Spectral Features



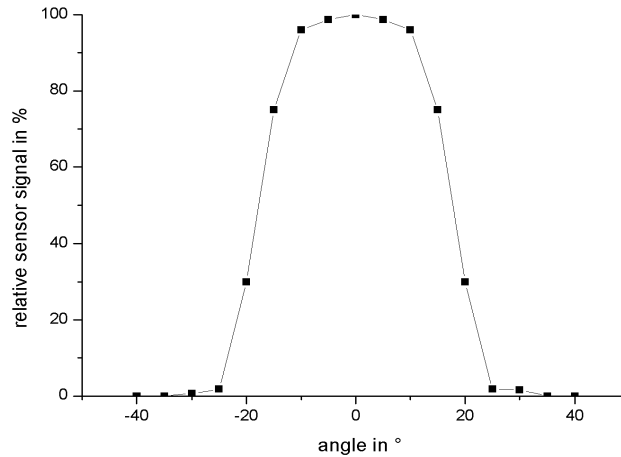
Relative spectral sensitivity

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## Incident Angle



Relative sensor signal depending on the incident angle

## Identification Label

x....x + mmyy + DVGW mm° + i.....i + zzzz	
x....x	Product identification with serial number
mmyy	Month and year of production
DVGW	Certification of DVGW standard
mm°	Viewing angle
i.....i	Output signal, for example 0-20mA, 4-20mA, 0-2000mV, 400-2000mV, 0-10V, digital
zzzz	Calibrated maximum value: Possible values: 2, 5, 10, 20, 50, 100, 200, 500, 1000, 2000 W/cm <sup>2</sup>

## Example

sglux W5 M12 + 0407 + DVGW 40° + 4mA-20mA + 10W/cm<sup>2</sup>

## Connector Pins

