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_cable:

- **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**
- **2m shielded cable**

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

Design	Part Number
With 4-20mA output and 2m cable	UV_DVGW_C_AMP4-20mA_cable
With 4-20mA output and 5 pin 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 pin 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)

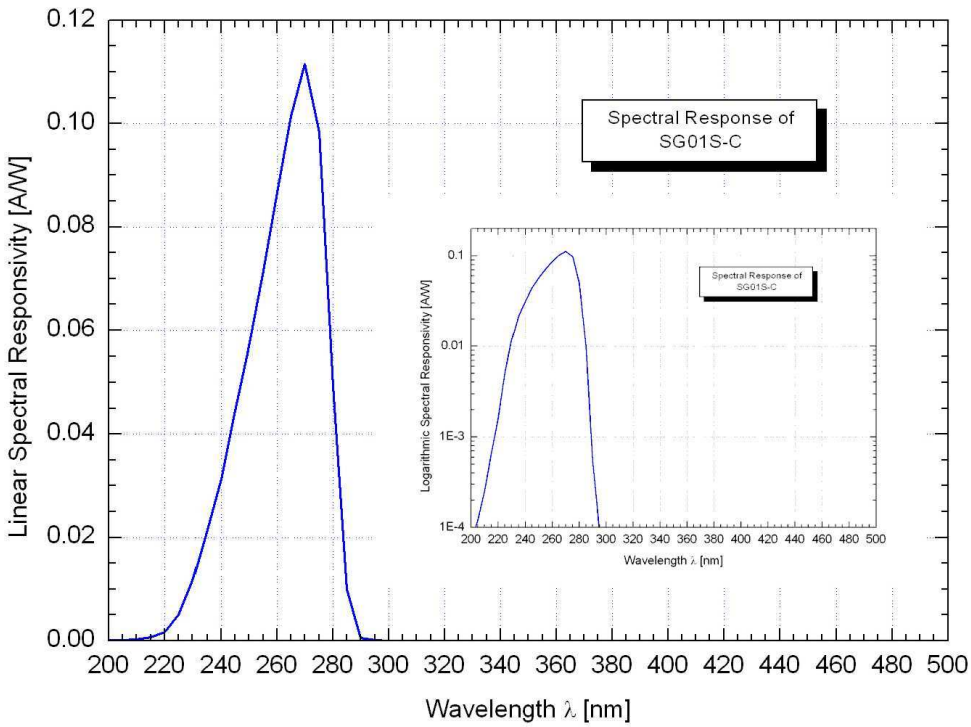
For Prices, delivery and to place an order, please contact Scitec Instruments Ltd at
Scitec Instruments Ltd, Bartles Industrial Estate, North Street, Redruth, Cornwall, England TR15 1HR
Tel: +44(0)1209 314 608, Fax +44(0)01209 314609
or visit our website www.scitec.uk.com

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	ΔT	0,03	$W/m^2/K$
Viewing Angle	ε	40	°

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

Spectral Features



Relative spectral sensitivity

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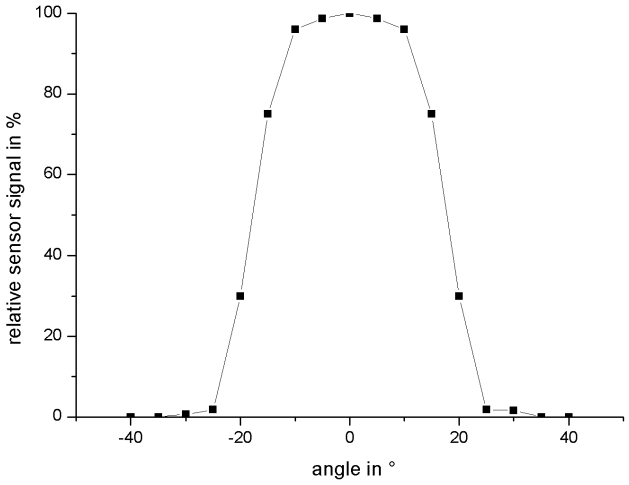
Incident Angle



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^2

Example

Sglux W5 M12 + 0407 + DVGW 40°+ 4mA-20mA + 10W/cm ^{2}

Connection

Brown cable: 0
White cable: V_+

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