UV-Air ® Probe with Erythema Photodiode

Part Number: UV_Air_UV-Index_cable

Features of UV_Air_UV-Index_cable:

- **For measurement of erythema causing UV radiation according to ISO 17166 CIE S 007/E (2000) – DIN 5050**
- **With M14 thread for comfortable mounting**
- **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:

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))

For Prices, delivery and to place an order, please contact Scitec Instruments Ltd at
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Tel: +44(0)1209 314 608, Fax +44(0)01209 314609
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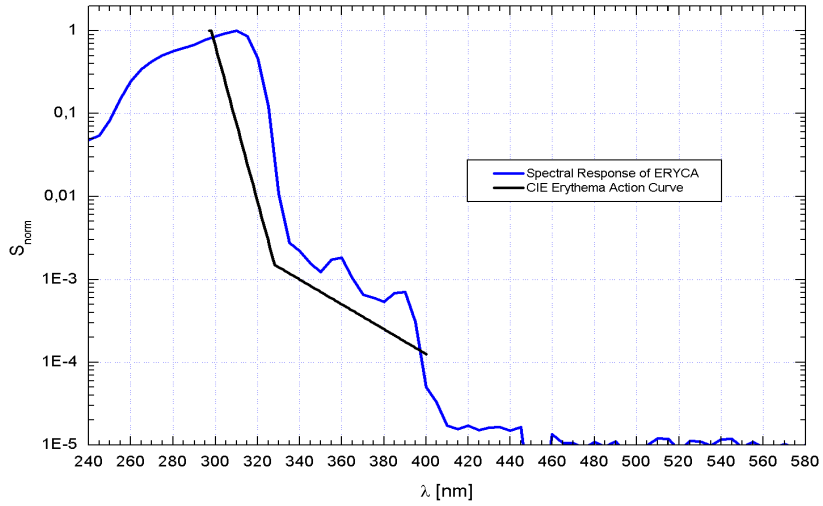
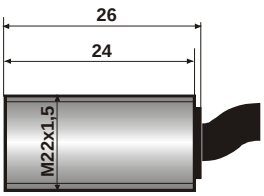
Technical Data (T_a = 25 ℃)

Parameter	Symbol	Value	Unit
Operating temperature range	T_{opt}	-20....+80	℃
Reverse voltage	V_{Rmax}	3	V
Forward current	I_{Fmax}	1	mA
Active area	A	0,054	mm^2
Capacitance	C	21	pF
Shunt resistance (dark)	R_s	300	MΩ
Dark current at 1 V reverse bias	I_d	1	fA
Open circuit voltage (300µW/cm2)	V_0	>250	mV
Breakdown voltage ($200\mu W/cm^2$,λ=300nm)	V_{BR}	>3	V
Short circuit current ($200\mu W/cm^2$, λ=300nm)	I_0	ca. 160	nA
Max. Spectral sensitivity	S_{max}	19	mA/W
Wavelength of max. Spectral sensitivity	λ_{Smax}	300	nm
Range of spectral sensitivity (S=0.1*Smax)	–	215 – 325	nm
Visible blindness	S_{max}/S_{400nm}	100000	

Spectral Sensitivity (photodiode ERYCA)



Dimensions



Configuration:
Brown: -
White: +

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