

UV-Air[®] Probe with Erythema Photodiode

Part Number: UV_Air_UV-Index_cable



Our probes from the **UV-Air[®]** series are characterized by a solid and compact design. A male thread allows various mounting possibilities at the measuring point.



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:

<i>Sensortype</i>	<i>Part Number</i>
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

<i>Design</i>	<i>Part Number</i>
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 Erythema Photodiode

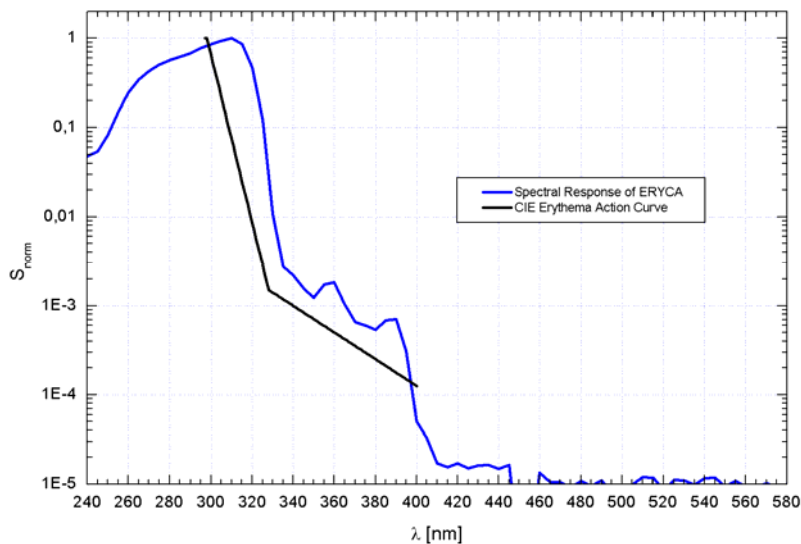
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Technical Data (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Operating temperature range	T _{opt}	-20....+80	°C
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/cm ²)	V ₀	>250	mV
Breakdown voltage (200μW/cm ² , λ=300nm)	V _{BR}	>3	V
Short circuit current (200μW/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*S _{max})	—	215 – 325	nm
Visible blindness	S _{max} /S _{400nm}	100000	

Spectral Sensitivity (photodiode ERYCA)

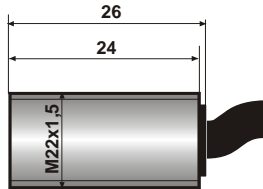


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Dimensions



configuration:

brown: -
white: +