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UVA Sensor SKU 421

Skye Instruments Ltd have been designing and manufacturing quality, fully calibrated light sensors since 1983.

Skye offer sensors to measure light levels in the Ultraviolet A and Ultraviolet B wavebands. The wavelengths used in this UVA sensor are according to CIE standards.

The dimensions and overall look of these sensors are similar to that of our other sensors. The housing is black aluminum and sealed to IP67 standards.

The light sensor head is cosine corrected and has been designed with an integral amplifier to give a voltage output for use with most dataloggers, computers, PLCs, etc.

Sensors calibration is traceable to NPL and each sensor is issued with a calibration certificate.



Climatology, meteorology UV effects on ecosystems Marine biology, ecology, zoology Studies of plant/animal responses to rising UV levels

SKU 421 SPECIFICATIONS

Construction -	Anodised black aluminum, sealed to IP67	Output Impedance -	500Ω
Cable -	Screened. 7-1-4-C military specification.	Power Supply -	5-15VDC
	Cable gland on sensor housing	Absolute calibration error (2) -	typ. <3%, 5% max
<u>Sensor</u> -	Cosine corrected head. Specially formulated diffuser.	Cosine error (3) -	3%
Detector -	GaAsP photodiode	Azimuth error (4) -	< 1%
Filters -	Optical Glass	Longterm stability (5) -	±2%
Spectral Response -	315nm - 400nm	Response time (6) -	better than 10ms
Working Range (1) -	0-100 W m ⁻²	Mounting -	M6 x 7mm tapped hole in base.
Output Signal -	0-2V		Sensor supplied with M6 x 16mm screw + 4x 1.5mm washers to suit
Sensitivity -	20 mV / W m ⁻²		panel thickness of 3-10mm 34mm
<u>Thermal Drift of Output</u> -	0.025mV/°C max (-20 to +50°C)	Temperature range -	-10 to +60°C
Thermal Drift of Zero Offs	set - Typically 0.01 mV/°C (-20 to +50°C)	Humidity range -	0-100% RH
		Weight & Dimensions -	200g with 3m cable

NOTES ON SPECIFICATIONS

 All standard Skye sensors will work at levels of irradiance well above that found in terrestrial sunlight conditions, room or growth chamber lighting
Main source of this error is uncertainty of calibration of Reference Lamp. Skye calibration standards are directly traceable to N.P.L. Standard references.
Cosine error to 80° is typically 5% max. Figures shown are for normal use sources, e.g., sun plus sky, diffuse sun, growth chambers, etc.
Measured at 45° elevation over 360°
Maximum change in one year. Calibration check recommended at least every two years. Experience has shown that changes are typically much less than figures
Times are generally less than the figure quoted, which is in nanoseconds. They may be slightly increased if long leads are fitted, or those of a higher capacity cable



ORDERING INFORMATION

T.	Sensors:	
	SKU 421	- UVA sensor with 3m cable
	SKU 421/I	- UVA sensor with 3m cable
	SKU 421/SS2	and DataHog connector - UVA sensor with 2m cable and SpectroSense2 connector
	Accessories,	Meters & Dataloggers:
	SKM 222 SKM 226	- Levelling unit - Long arm pole/wall mount
	SKL 904	- SpectroSense2, 4-channel display meter
120	SKL 908	- SpectroSense2+ 8-channel logging meter
	SDL 5000 Ser	ies - Range of dataloggers

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