

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

typ. <3%, 5% max

500Ω

SKU 421 SPECIFICATIONS

Construction -Anodised black aluminum, sealed to IP67 **Output Impedance** -

5-15VDC Cable -Screened. 7-1-4-C military specification. Power Supply -

Cable gland on sensor housing Absolute calibration error (2) -

Cosine corrected head. Specially Sensor -3%

formulated diffuser. Cosine error (3) -

GaAsP photodiode < 1% Azimuth error (4) -**Detector** -

Filters -**Optical Glass** Longterm stability (5) -±2%

better than 10ms 315nm - 400nm Response time (6) -Spectral Response -

0-100 W m⁻² Working Range (1) -**Mounting** -M6 x 7mm tapped hole in base.

Sensor supplied with M6 x 16mm screw + 4x 1.5mm washers to suit

panel thickness of 3-10mm

-10 to +60°C Temperature range -

0-100% RH **Humidity range** -

200g with 3m cable Weight & Dimensions -

NOTES ON SPECIFICATIONS

Output Signal -

Sensitivity -

(1) All standard Skye sensors will work at levels of irradiance well above that found in terrestrial sunlight conditions, room or growth chamber lighting

(2) Main source of this error is uncertainty of calibration

0-2V

Thermal Drift of Output - 0.025mV/°C max (-20 to +50°C)

Thermal Drift of Zero Offset - Typically 0.01 mV/°C (-20 to +50°C)

20 mV / W m⁻²

of Reference Lamp. Skye calibration standards are directly traceable to N.P.L. Standard references. (3) Cosine error to 80° is typically 5% max. Figures

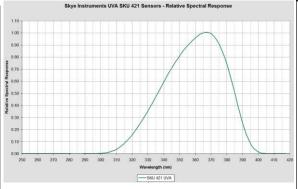
shown are for normal use sources, e.g., sun plus sky,

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(4) Measured at 45° elevation over 360°

(5) Maximum change in one year. Calibration check recommended at least every two years. Experience has

shown that changes are typically much less than figures **(6)** 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



ORDERING INFORMATION

Sensors:

SKL 904

SKU 421 - UVA sensor with 3m cable SKU 421/I - UVA sensor with 3m cable

and DataHog connector SKU 421/SS2 - UVA sensor with 2m cable

and SpectroSense2 connector

Accessories, Meters & Dataloggers:

SKM 222 - Levelling unit

- Long arm pole/wall mount SKM 226

display meter SKL 908 - SpectroSense2+ 8-channel logging meter

- SpectroSense2, 4-channel

SDL 5000 Series - Range of dataloggers

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Skye Instruments Ltd