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UV Index Sensor SKU 440

Skye have been designing and manufacturing quality, fully calibrated light sensors since 1983. As well as this UV Index sensor, the range also includes UVA and UVB sensors (see seperate datasheets).

This UVI Index sensor has a response closely matching the Erythema Action Spectrum, the damaging portion of the solar radiation spectrum associated with sunburn and skin cancer.

The UV Index sensor gives a voltage output which can be easily scaled to UVI values with an appropriate meter e.g. Apollo Display Meter (SKA 400) i.e. ranging from 0, low risk of sunburn to 11+, dangerous levels of UV).

The sensor is calibrated against a reference traceable to National Standards under full sunlight conditions, and so is ideal for long term datalogging on meteorological stations.



SKU 440 SPECIFICATIONS

Construction -	Anodised black aluminium, sealed to IP67	Azimuth error (3) -	< 1%
<u>Cable</u> -	Screened. 7-1-4-C military specification. Cable gland on sensor housing	Longterm stability (4) -	±2%
	5	Response time (5) -	better than 50ms
<u>Sensor</u> -	Cosine corrected head. Specially formulated diffuser	Mounting -	M6 x 7mm tapped hole in base. Sensor supplied with. M6 x 16mm
Detector -	Filtered SiC Photodetector		screw + 4x 1.5mm washers to suit
Spectral Response -	Close to Erythemal Action Spectrum		
Output Scaling -	Nominal- $0-2V = 0 - 20UVI (0-0.5 W m^{-2})$	<u>Weight</u> -	200g with 3m cable
Thermal Drift of Output -	0.075mV/°C max (-20 to +50°C)	Temperature range -	-20 to +70°C 34mm
Absolute calibration error	r (1) - typ. <3%, (5% max)	<u>Humidity range</u> - Dimensions -	0-100% RH
Cosine error (2) -	3%	Dimensions -	

NOTES ON SPECIFICATIONS

(1) Main source of this error is uncertainty of calibration of Reference. Skye calibration standards are directly traceable to N.P.L. standard references.

(2) 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.

(3) Measured at 45° elevation over 360°.

(4) Maximum change in one year. Calibration check recommended at least every two years. Experience has shown that changes are typically much less than figures quoted.

(5) Times are generally less than the figure quoted, which is in milliseconds. They may be slightly increased if long leads are fitted, or those of a higher capacity cable.



ORDERING INFOMATION

Sensors:			
SKU 440	- UVI sensor with 3m cable		
SKU 440/I	- UVI sensor with 3m cable and DataHog connector		
SKU 440/SS2	- UVI sensor with 2m cable and SpectroSense2 connector		
Accessories, Meters & Dataloggers:			
SKM 222	- Levelling unit		
SKM 226	- Long arm pole/wall mount		
SKL 904	- SpectroSense2, 4-channel display meter		
SKL 908	- SpectroSense2+ 8-channel logging meter		
SDL 5000 Ser	ies - Range of dataloggers		

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