



High Output Light Sensors

This range of sensors from Skye permit collection of data using PCs and a wide variety of industrial loggers and PLCs.

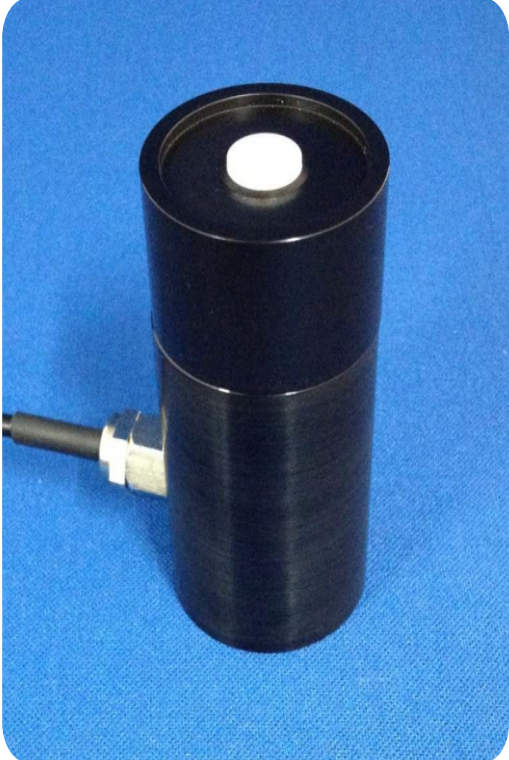
Industrial loggers and PLC (Programmable Logic Controller) are now finding wide usage as their availability increases and prices fall. Also, PCs have reached a price/performance level where their use as dedicated data collection control, etc. is justified. They usually outperform and are lower than many dedicated data loggers.

The SKL 2600 range is designed to meet requirements of PCs and PLC, giving linear, high level outputs with minimal power requirements.


The new range is built using the quality components and experience gained on our standard range, but in addition incorporate amplifiers to give full scale outputs of 1, 2, 3, 4, 5 or 10 volts or alternatively 4-20mA.

The sensors are available in various versions for different applications.

The most commonly used are the Lux sensor and Pyranometer. The Pyranometer would, for example, be used with the PC to determine solar energy input in watts. We offer a range of other sensors to accommodate specialist needs. Often we can produce sensors for individual requirements at little extra cost.



High Output Sensors

<p>Dimensions & weight:</p>  <p>200g with 3m cable</p> <p>Construction: Anodised aluminium/acetyl. Sealed to Ip68</p> <p>Cable: Screen cable 7-2-2c military specification</p> <p>Sensor: Cosine corrected head</p> <p>Detector: Silicon photcell</p> <p>Filters: Dependant on sensor type</p> <p>Sensitivity - current: 4-20mA</p> <p>Sensitivity - Voltage: 1, 2, 3, 4 or 5 volts up to 10v full scale</p> <p>Working Range: See individual datasheets.</p>	<p>Absolute Calibration error (1): type <3% max 5%</p> <p>Cosine error (2): 3%</p> <p>Azimuth error (3): <1%</p> <p>Temperature coefficient: +/- 0.1%/°C</p> <p>Longterm Stability (4): +/- 2%</p> <p>Response Time (5) - Voltage Output: 50mS</p> <p>Internal Resistance - Voltage Output: See individual datasheets</p> <p>Operating Range: -20°C to +70°C, 0-100% RH</p> <p>Power Supply requirements:</p> <table border="0"> <tr> <td>Full Scale:</td> <td>Voltage</td> </tr> <tr> <td>1, 2 & 3 volts</td> <td>5 - 15 volts</td> </tr> <tr> <td>4 volts,</td> <td>7.15 volts</td> </tr> <tr> <td>5 volts,</td> <td>9.15 volts</td> </tr> <tr> <td>10volts,</td> <td>12.15 volts</td> </tr> </table>	Full Scale:	Voltage	1, 2 & 3 volts	5 - 15 volts	4 volts,	7.15 volts	5 volts,	9.15 volts	10volts,	12.15 volts
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NOTES ON SPECIFICATIONS

- (1) Main source of this error is uncertainty of calibration of Reference Lamp. 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
- (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 INFORMATION

- VOLTAGE OUTPUT SENSORS
- SKL 2610 - HOPL PAR Special sensor
 - SKL 2620 HOPL PAR Quantum sensor
 - SKL 2633 HOPL Lux sensor with screened aluminium housing
 - SKL 2640 HOPL PAR Energy sensor
 - SKL 2650 HOPL Silicon Cell Pyranometer sensor
 - SKL 2660 HOPL Customised single channel sensor
- CURRENT OUTPUT SENSORS
- SKL 2615 HOPL PAR Special sensor
 - SKL 2625 HOPL PAR Quantum sensor
 - SKL 2638 HOPL Lux sensor with screened aluminium housing
 - SKL 2645 HOPL PAR Energy sensor
 - SKL 2655 HOPL Silicon Cell Pyranometer sensor
 - SKL 2420 HOPL UVA sensor
 - SKL 2430 HOPL UVB Sensor
- ACCESSORIES
- SKM 222 - Levelling Unit
 - SKM 226 - Long Arm Bracket