

Light Sensor 1000 lux



The 1142 Light sensor can measure ambient light up to 1000 lux (roughly equivalent to the typical lighting in a studio, or the sky on an overcast day). Each sensor has been individually calibrated, and a label has been applied to the back of the board with a calibration value which can be used in your calculations to increase measurement accuracy.

Some light sensors report drastically different values depending on the type of light being detected. The 1142 light sensor, however, only differs by a factor of 1.2 when measuring fluorescent light versus incandescent.

If you need a larger measurement range, take a look at the [1143 – Light Sensor 70,000 lux](#).

Comes Packaged with

- [3002 – 60cm Phidget Cable](#)

Product Specifications

Sensor Properties

Sensor Type	Light
Controlled By	Voltage Input (0-5V)
Sensor Output Type	Non-Ratiometric

Light Sensor

Response Time Max	2 ms
Peak Sensitivity Wavelength	625 nm
Light Level Min	1 lx
Light Level Max (5V)	1 klx

Light Current Ratio 1.2

Electrical Properties

Output Impedance 1 kΩ

Supply Voltage Min 2.4 V DC

Supply Voltage Max 5.5 V DC

Current Consumption Max 5 mA

Physical Properties

Operating Temperature Min -40 °C

Operating Temperature Max 85 °C