



Wireless Lux Sensor

Technical Overview

General Description

The OEM RF Wireless Lux Sensor measures the intensity of light in lux (luminescence/unit area), from 0 – 1000 lux (indoor range).

Features

- Measures the amount of light present.
- Highly sensitive photodiode.

Principle of Operation

The OEM Wireless Lux Sensor uses a highly sensitive photo-diode to detect and measure the intensity of light around the device. The sensor returns a value in “lux” to the sensor monitoring software. The data is stored in the software and can be reviewed and exported as a data sheet or graph. Notifications can be set up to alert the user when light is present or not with the ability to only notify within time of day parameters. Perfect for light sensitive applications like museum and art gallery light monitoring.

OEM Sensor Core Specifications


- Power: 3.0 V coin cell battery
- Communication: RF 900, 868 and 433 MHz
- Antenna: 4” wire antenna
- Operating Temperature: -40° to 85°C (-40° to 185°F)
- Device Range: 250 - 300 ft. non-line-of-sight*
- Only 1 inch by 1 inch

* Actual range may vary depending on environment.

Applications

- Art gallery light metering.
- Musuem light metering.
- Greenhouse and agricultural light monitoring.

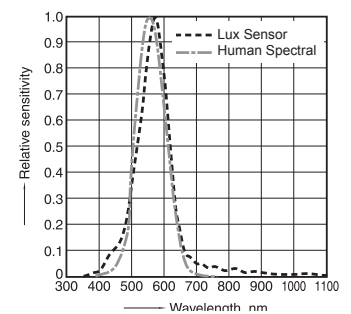
Specifications

Supply Voltage	2.0 - 3.6 VDC *
Current Consumption	0.7 μ A (sleep mode) 2 mA (radio idle/off mode) 2 mA (measurement mode) 25 mA (radio RX mode) 35 mA (radio TX mode)
Operating Temperature Range	-40°C to +85°C (-40°F to +185°F) **
Available Operating Frequencies	900 MHz (25 Ch.), 868 MHz (5 Ch.) and 433 MHz (15 Ch.)
Max Light Level	0 - 1,000 Lux
Certifications	FC CE  Industry Canada 900 MHz product; FCC ID: ZTL- RFSC1 and IC: 9794A-RFSC1. 868 and 433 MHz product tested and found to comply with: CISPR 22:2008-09 / EN 55022:2010 - Class B and ETSI EN 300 220-2 V2.4.1 (2012-05).

* Hardware can not withstand negative voltage. Please take care when connecting a power device.

** At temperatures above 100°C, it is possible to lose programmed memory.

Relative sensitivity vs. wavelength
Ambient Temperature: 25°C (77°F)



For more product information, to get a quote, or to place an order, please contact our sales department at 801-561-5555. Visit us on the web at www.oemsensors.com.

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