

How to adjust the light sensor module



Article Overview

You can adjust a light sensor module by tuning its onboard potentiometer to set the digital output threshold or by calibrating the analog output in your code to match desired light levels.

Hardware Adjustment

Most light sensor modules, such as LDR modules or LM393-based modules, include a small potentiometer that allows you to adjust the sensitivity of the digital output. The steps are:

- Locate the potentiometer on the module. It is usually a small screw or dial near the digital output pin .
- Power the module by connecting VCC to 3.3–5V and GND to 0V.
- Observe the digital output (DO): It will be HIGH in darkness and LOW in light.
- Turn the potentiometer clockwise or counterclockwise to change the threshold at which the digital output switches. This allows you to set the light level that triggers the sensor .
- Test the adjustment by exposing the sensor to different light conditions and observing the DO pin or the connected LED indicator.

Software Calibration

For analog output (AO), you can read the light intensity continuously and set thresholds in your code:

- Connect the AO pin to an analog input on your microcontroller (e.g., A0 on Arduino),

....

Article Content

Arduino UNO R4

Discover how to use Arduino UNO R4 with an LDR light sensor module. You will also learn how to program the Arduino UNO R4 to

Raspberry Pi

If you're looking for a light sensor that outputs two level (LOW/HIGH) based on a settable threshold, We highly recommend checking

How to Adjust a Motion Sensor Light Switch

Or are you fed up with your outdoor lights constantly switching on and off at the slightest movement? If so, it's time to take control

Raspberry Pi

The LDR light sensor module can be used to find out if there is light or measure how much light is present in the surroundings. It has

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.gmarkconstruction.co.za>

Email: sales@gmarkconstruction.co.za

Phone: +31-6-15-38-72-94

Address: Herengracht 456, 1017 BS Amsterdam, Netherlands

This document is for informational purposes only. Specifications subject to change without notice.

