UV sensor module

Technical Manual Rev 1r0

Designed for applications where high reliability and accuracy of the UV index (UVI) are required; Suitable for measuring the total amount of solar ultraviolet light intensity; Contrast the World Health Organization UV Index grading standards Detection of UV wavelength: 200-370 nm;Fast response, full interchangeability. Compatible in all gizDuino boards and MCUs.

Features:

- Precision: +/-1 UV Index
- Bolt holes for easy installation
- Arduino Compatible

General Specifications:

Operating voltage: 3.3V - 5VDC
Output voltage: 0V - 1V
(Corresponds to UV Index 1 - 10)
Response spectrum: 200nm - 370nm
Response time: >0.5 second
PCB Dimensions: 19mm x 12.5mm

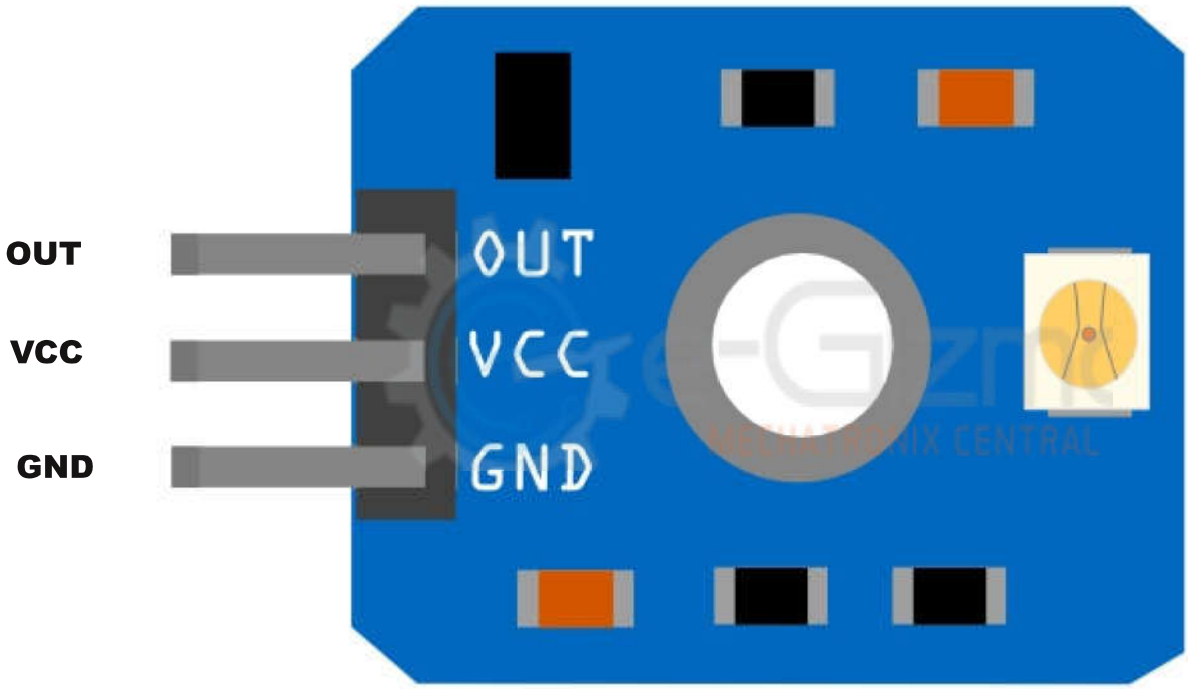
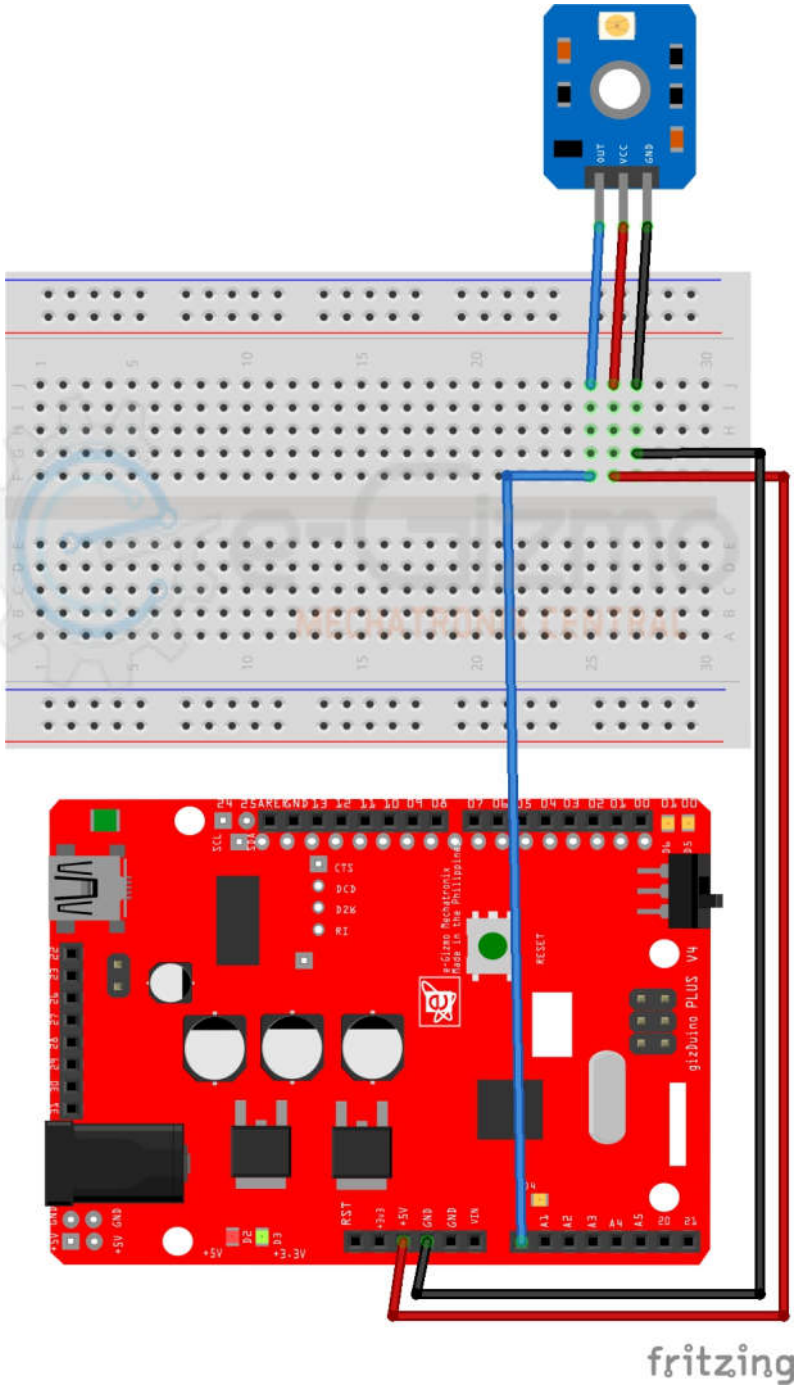


Figure 1: Major parts of UV sensor module.

Wiring Connections:

Gizduino to UV sensor

+5V	**VCC**
GND	**GND**
A0	**OUT**



```
/*
  e-Gizmo UV sensor module

  This example code reads an analog input on pin 0,
  then prints the result to the serial monitor.

  Codes by
  e-Gizmo Mechtronix Central
  http://www.e-gizmo.com
  August 10,2017

 */

// the setup routine runs once when you press reset:
void setup() {
  // initialize serial communication at 9600 bits per second:
  Serial.begin(9600);

}

// the loop routine runs over and over again forever:
void loop() {
  // read the input on analog pin 0:
  int SENSOR_VALUE = analogRead(A0);
  // print out the value you read:
  Serial.println(SENSOR_VALUE);
  delay(10);        // delay in between reads for stability
}
```

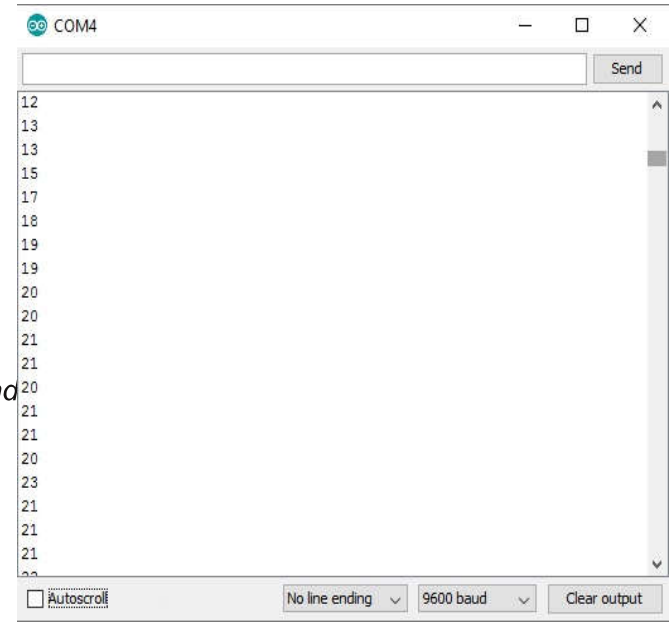


Figure 2: Serial Monitor ouput.

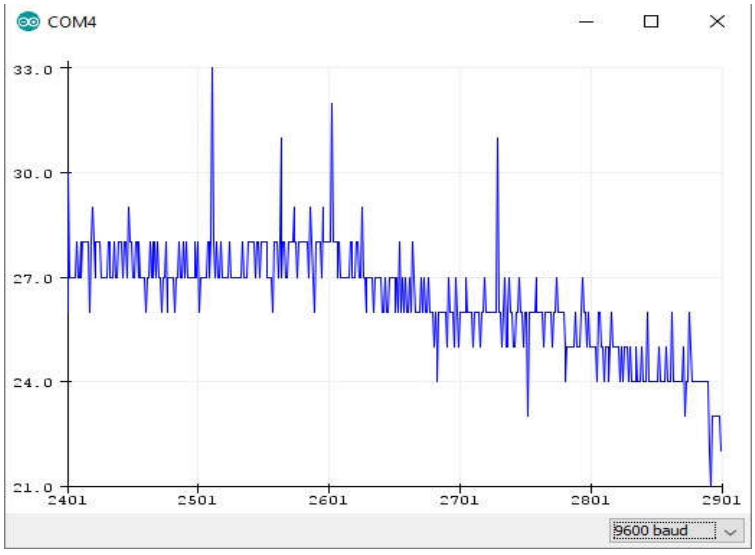


Figure 3: Plotter ouput.