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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

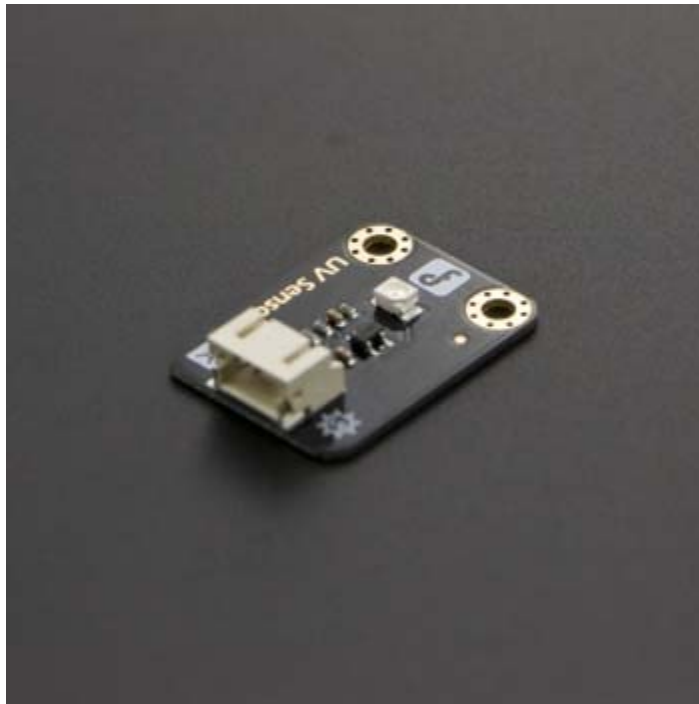
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UV sensor SKU: SEN0162



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Introduction

This UV Sensor used GUA-S12SD chip is suitable for detecting the UV radiation in sunlight. It can be used in UV Index Monitoring, DIY project, UV-A Lamp Monitoring, Plants growing Environmental monitoring...etc.

It can detect the UV wavelength of 200-370nm, fast response, linear analog voltage signal output. Small size, easy for installing. With the diagram of the world health organization UV index grading standards, you can know the UV index from the sensor directly.

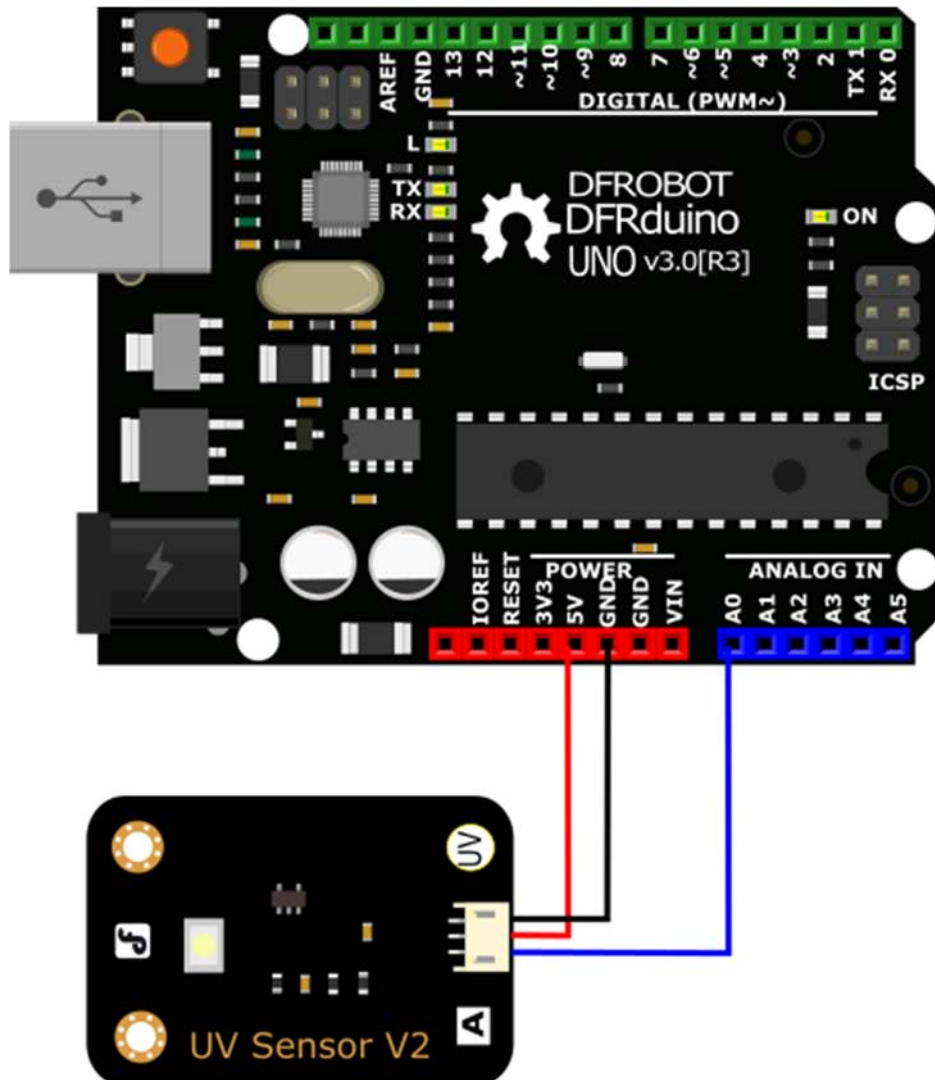
Applications

- UV-A Lamp Monitoring
- UV Index Monitoring
- DIY UV electronic project, etc...

Specification

- Operating Voltage: 5V
- Output voltage: DC 0-1V (Corresponding 0-10 UV index)
- Operating Current: 0.06mA (0.1mA max)
- UV wavelength detect: 200-370nm
- Test accuracy: ± 1 UV INDEX
- Response time: < 0.5 s
- Operating temperature: -20°C - 85°C
- Dimension: 30 x 22mm

Diagram



SEN0162 Connection diagram

UV Index	0	1	2	3	4	5
Vout(mV)	<50	227	318	408	503	606
Analog Value	<10	46	65	83	103	124
UV Index	6	7	8	9	10	11 ⁺
Vout(mV)	696	795	881	976	1079	1170+
Analog Value	142	162	180	200	221	240

UV index

Sample Code

```
/*  
# This Sample code is for testing the UV Sensor .  
#Connection:  
    VCC-5V  
    GND-GND  
    OUT-Analog pin 0  
*/  
  
void setup()  
{  
    Serial.begin(9600); // open serial port, set the baud rate to 9600 bps
```

```
}  
void loop()  
{  
  int sensorValue;  
  int analogValue = analogRead(0); //connect UV sensors to Analog 0  
  if (analogValue<20)  
  {  
    sensorValue = 0;  
  }  
  else  
  {  
    sensorValue = 0.05*analogValue-1;  
  }  
  Serial.println(sensorValue); //print the value to serial  
  delay(200);  
}
```