

TEMT6000 Light Intensity Sensor Module for Arduino



1. Description

This EMT6000 light module is compatible with micro-controller control board such as Arduino series micro-controllers.

This module is mainly composed of a highly sensitive visible photocell (NPN type) triode, which can magnify the captured tiny light by about 100 times, and is easily recognized by the microcontroller for AD conversion.

What it responds to visible light is similar to human eyes, therefore; it can detect the intensity of ambient light.

In addition, it comes with two positioning holes, which can be installed on other devices.

2. Parameters:

Working voltage: 3.3-5V (DC)

Current: 20MA Power: 0.1W

Operating temperature: -10 degrees Celsius to +50 degrees

Celsius Size: 31.6mmx23.7mm

Interface: 3PIN interface

Output signal: analog signal

3. Test Code

```
int sensorPin =A0 ; //define the analog port A0
int value = 0;      //set value to 0
void setup()
{
  Serial.begin(9600);//set baud rate

}
void loop()
{
  value = analogRead(sensorPin); //Set value to the read value of A0
  Serial.println(value, DEC);    //display value
  delay(100); //delay in 0.1S
}
```

4. Test Results

Wiring according to the above figure, burn the program, power on, open the monitor and set the baud rate to 9600, you can see the analog value representing the current light intensity, as shown below.

