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High Sensitivity Water Sensor -Red Version

Product ID : 42285

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High Sensitivity Water Sensor -Red Version

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Description :

Water sensor brick is designed for water detection, which can be widely used in sensing the rainfall, water level, even the liquate leakage. The brick is mainly comprised of three parts: An Electronic brick connector, a 1 MΩ resistor, and several lines of bare conducting wires.

This sensor works by having a series of exposed traces connected to ground and interlaced between the grounded traces are the sens traces. The sensor traces have a weak pull-up resistor of 1 MΩ. The resistor will pull the sensor trace value high until a drop of water shorts the sensor trace to the grounded trace. Believe it or not this circuit will work with the digital I/O pins of your Arduino or you can use it with the analog pins to detect the amount of water induced contact between the grounded and sensor traces.

This item can judge the water level through with a series of exposed parallel wires stitch to measure the water droplet/water size .

This item can easily change the water size to analog signal, and output analog value can directly be used in the program function, then to achieve the function of water level alarm.

This item have low power consumption, and high sensitivity, which are the biggest characteristics of this mdoule.

This item can be compatible with Arduino UNO、Arduino mega2560、Arduino ADK etc.

With this module, you could easily get water (in fact any conducting liquid) surface level. It is useful in the cases that you need warning if liquid in the holder is less than or over certain amount. More conducting surface of this module in the liquid will conduct more electronic charge. That's how it works.

Another usage of this module is to detect the electroconductivity of liquid. I will give you a simple example later.

We have two kinds of Water Level Sensor as below :

1、High Sensitivity Water Level Sensor -Red Version

2、High Sensitivity Water Level Sensor -Blue Version

Features :

1、Working voltage: 5V/3.3V

2、Working Current: <20ma

3、Interface: Analog

4、Width of detection: 40mm×16mm

5、Working Temperature: 10℃~30℃

6、Weight: 3g

7、Size: 65mm×20mm×8mm

8、Arduino compatible interface

9、Low power consumption

10、High sensitivity

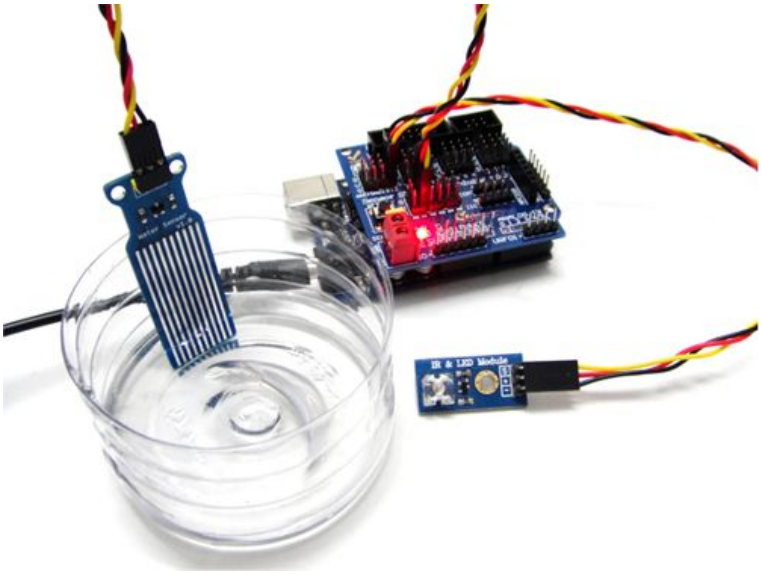
11、Output voltage signal: 0~4.2V

12、Production Technology: FR4 double-sided spray tin

Hardware Connection :

Arduino	Water Level Sensor Module
5V/3V3	VCC
A5 (any one among A0~A5)	OUT
GND	GND

With the Arduino Sensor Shield V7 for Arduino you could plug in and play.



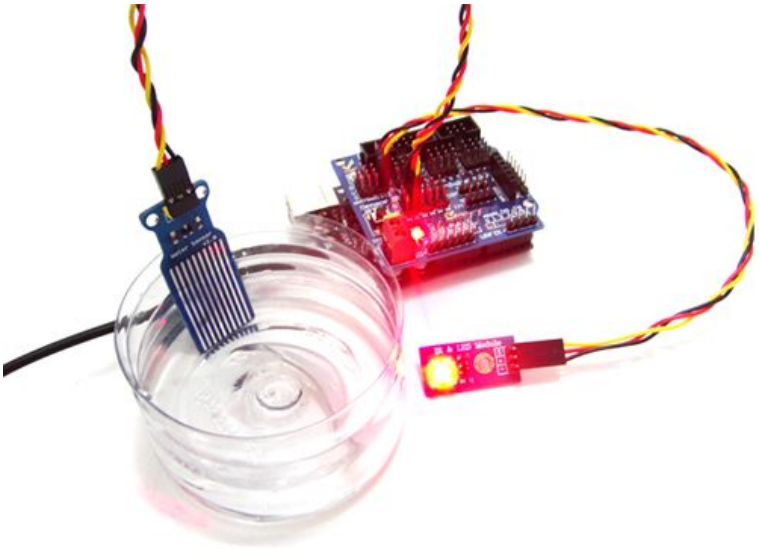
Example

Connect the module with Arduino. Uploading the following code to Arduino:

```
void setup(){

Serial.begin(9600);

}

void loop(){

Serial.print("Water level Sensor Value:");
Serial.println(analogRead(A5));
delay(100);
```

}

Put the module in a glass of water:



Water level beyond warning value, the system will alarm, LED will lights up.

Note that the water surface should be below the silver tin lines on the module.

Open serial Monitor and you could read the value.

Now you could add water to the glass, you could see the value increases. Or you could add salt to the water, the value increases too.

Pin definition :

"OUT" stand for signal input

"VCC" stand for power supply

"GND" stand for GND

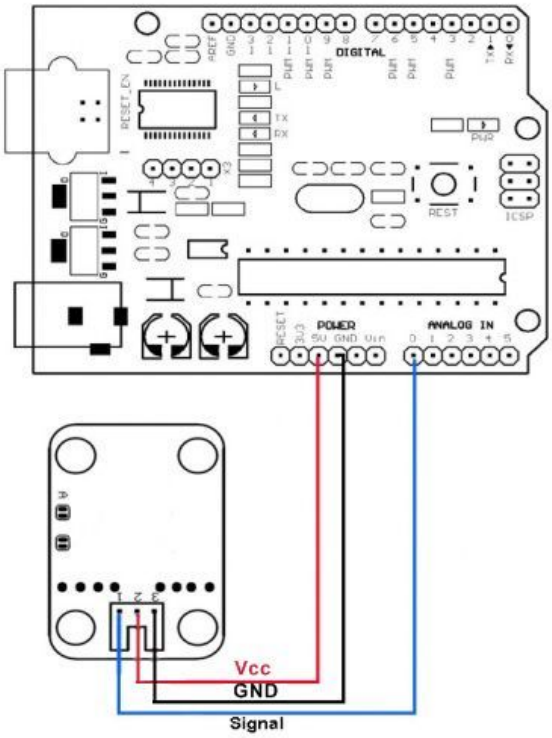
Applications :

1、Rainfall detecting

2、Liquid leakage

3、Tank overflow detector

Connecting Diagram :



This sensor module come with 3 Pin Dual-female Jumper Wire length 300mm as below :

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