

## Water Level Detection Sensor Module

### DESCRIPTION:

Water sensor brick is designed for water detection, which can be widely used in sensing rainfall, water level, and even liquid leakage.

Connecting a water sensor to an Arduino is a great way to detect a leak, spill, flood, rain, etc. It can be used to detect the presence, the level, the volume and/or the absence of water. While this could be used to remind you to water your plants, there is a better Grove sensor for that. The sensor has an array of exposed traces, which read LOW when water is detected.

In this chapter, we will connect the water sensor to Digital Pin 8 on Arduino, and will enlist the very handy LED to help identify when the water sensor comes into contact with a source of water.



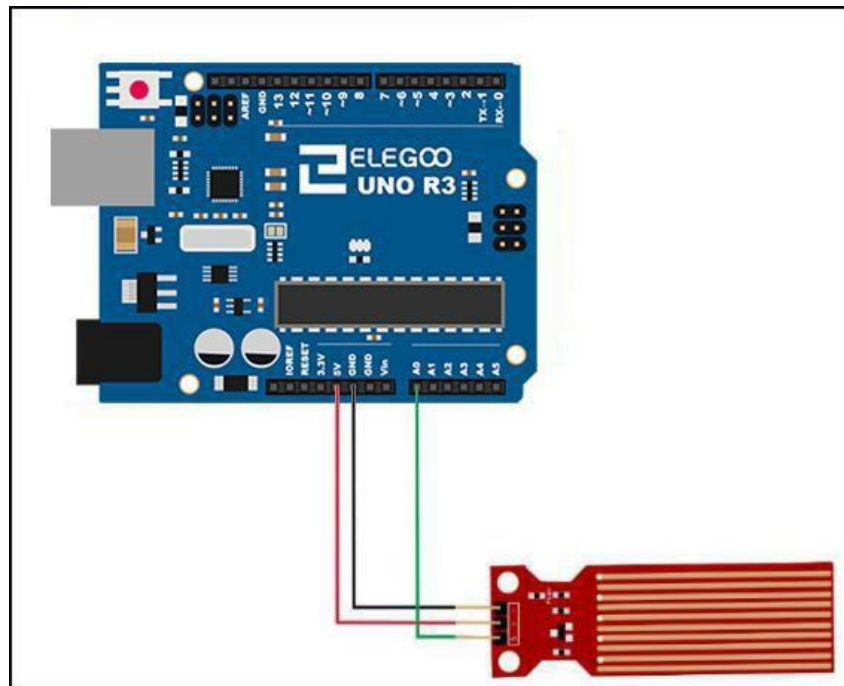
### Specification:

- Operating voltage :. DC5V
- Working current : less than 20mA
- Sensor Type : Analog
- detection area :. 40mm x16mm
- Working temperature :. 10 °C -30 °C
- Operating Humidity : 10% ~ 90 % non -condensing

### PIN CONFIGURATION:

- 1、"+": +5VDC
- 2、“-”: GND
- 3、“S”: Analog output pin

## Example:



## Code:

```
int adc_id = 0;

int HistoryValue = 0;

char printBuffer[128];

void setup()
{
    Serial.begin(9600);
}

void loop()
{
    int value = analogRead(adc_id); // get adc value

    if((((HistoryValue>=value)  &&  ((HistoryValue  -  value)  >  10))  ||
        ((HistoryValue<value) && ((value - HistoryValue) > 10)))
    {
```

```
    sprintf(printBuffer,"ADC%d level is %d\n",adc_id, value);  
    Serial.print(printBuffer);  
    HistoryValue = value;  
}  
}
```