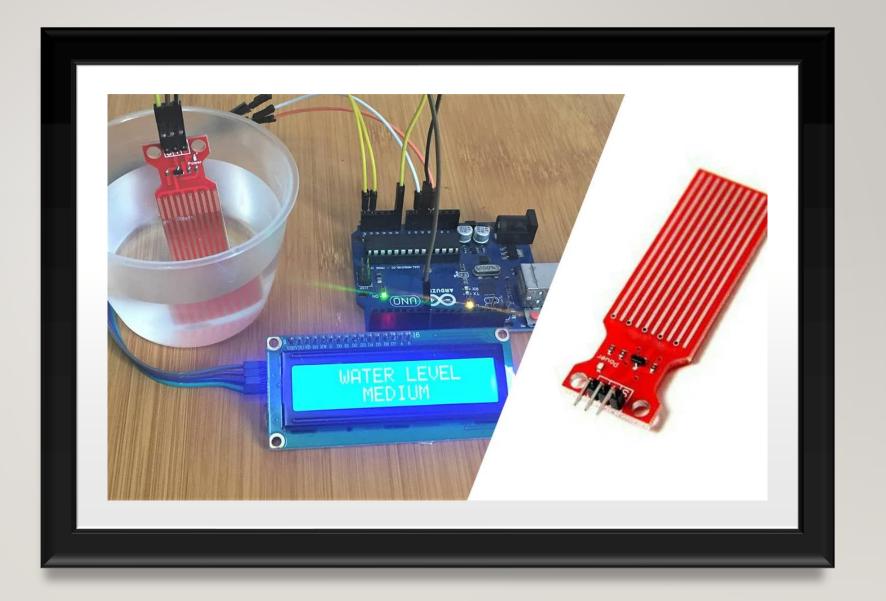
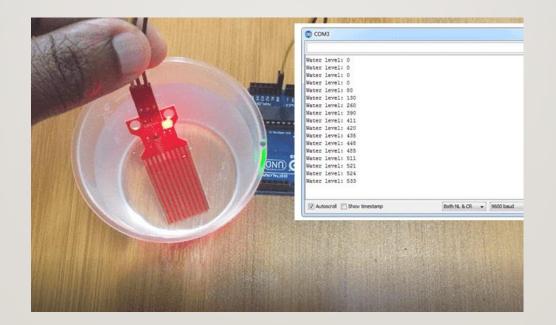
#### WATER LEVEL SENSOR



• Water Level Sensor គឺជាsensor ដែលមាននាទីសម្រាប់វ៉ាស់កម្រិតទឹក។

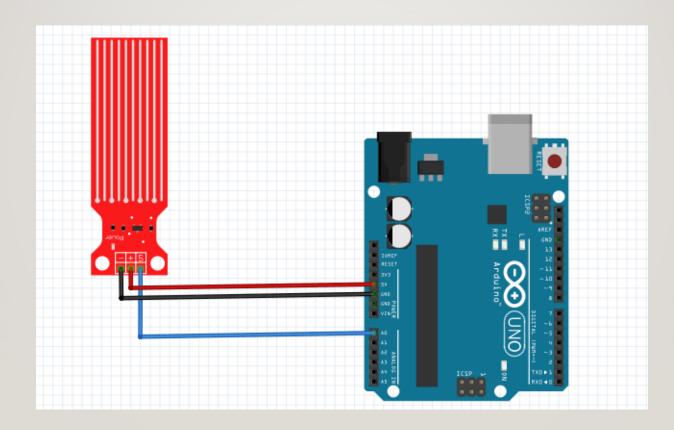


#### **HARDWARE COMPONENTS**

USB cable type A/B

VVater Level Sensor Liquid VVater Droplet Depth Detection	
Arduino Uno Rev3	× I
• Jumper wires (male to female)	× 10
Breadboard (optional, makes wiring easier)	× I

×



• យើងប្រើប្រាស់ breadboard និង jumper wire ខ្លះសម្រាប់ភ្ជាប់ឧបរណ៍ទាំងនេះដើម្បីដំណើរការ

Water Level Sensor	Arduino Connection
VCC	5V
GND	GND
OUT	Pin A0

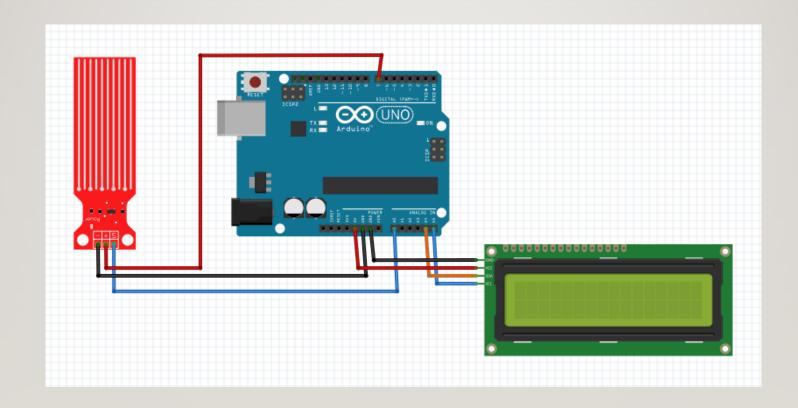
#### HARDWARE COMPONENTS

<ul> <li>Water Level Sensor Liquid Water Droplet Depth Detection</li> </ul>	×

- Arduino Uno Rev3
- Jumper wires (male to female) × 10
- Breadboard (optional, makes wiring easier)

  × I
- USB cable type A/B

  × I
- I2C LiquidCrystal x I



• យើងប្រើប្រាស់ breadboard និង jumper wire ខ្លះសម្រាប់ភ្ជាប់ឧបរណ៍ទាំងនេះដើម្បីដំណើរការ

Water Level Sensor	Arduino Connection
VCC	Pin D7
GND	GND
OUT	Pin A0
I2C LiquidCrystal	Arduino Connection
VCC	5V
GND	GND
SDA	A4
SCL	A5

```
#include <Wire.h>
#include <LiquidCrystal_I2C.h>
LiquidCrystal_I2C lcd(0x27, 2, 1, 0, 4, 5, 6, 7, 3, POSITIVE);
int lowerThreshold = 310;
int upperThreshold = 510;
#define sensorPower 7
#define sensorPin A0
int val = 0;
```

```
void setup() {
        Serial.begin(9600);
        lcd.begin(16,2);
        lcd.backlight();
        pinMode(sensorPower, OUTPUT);
        digitalWrite(sensorPower, LOW);
}
```

```
void loop() {
    int level = readSensor();
    if (level == 0) {
        Serial.println("Water Level: Empty");
        lcd.setCursor(0,0);
        lcd.print(" WATER LEVEL ");
        lcd.setCursor(0,1);
        lcd.print(" EMPTY ");
}
```

```
//This is a function used to get the reading
int readSensor() {
         digitalWrite(sensorPower, HIGH);
         delay(10);
         val = analogRead(sensorPin);
         digitalWrite(sensorPower, LOW);
         return val;
}
```