

Water level monitoring experiment

Overview



This is a water level measurement experiment, it is relatively simple to achieve, only need to read the value of the analog port(A0), and then converted to a percentage.

Specification

Operating voltage: DC3-5V

Operating current: less than 20mA

Sensor Type: Analog

Production process: FR4 double-sided HASL

Humidity: 10% -90% non-condensing

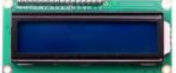







Detection Area: 40mmx16mm

Product Dimensions: 62mmx20mmx8mm

Pin definition

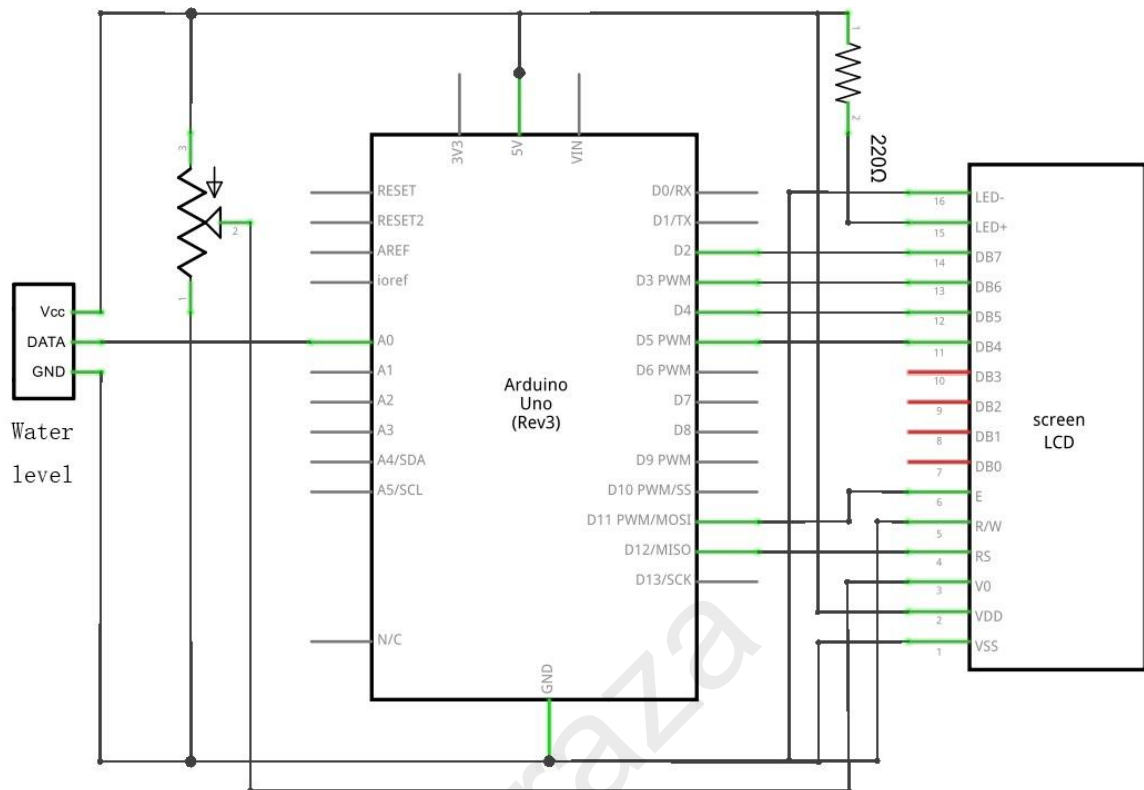
OUT	I/O
' + '	VCC
' - '	GND

Hardware required

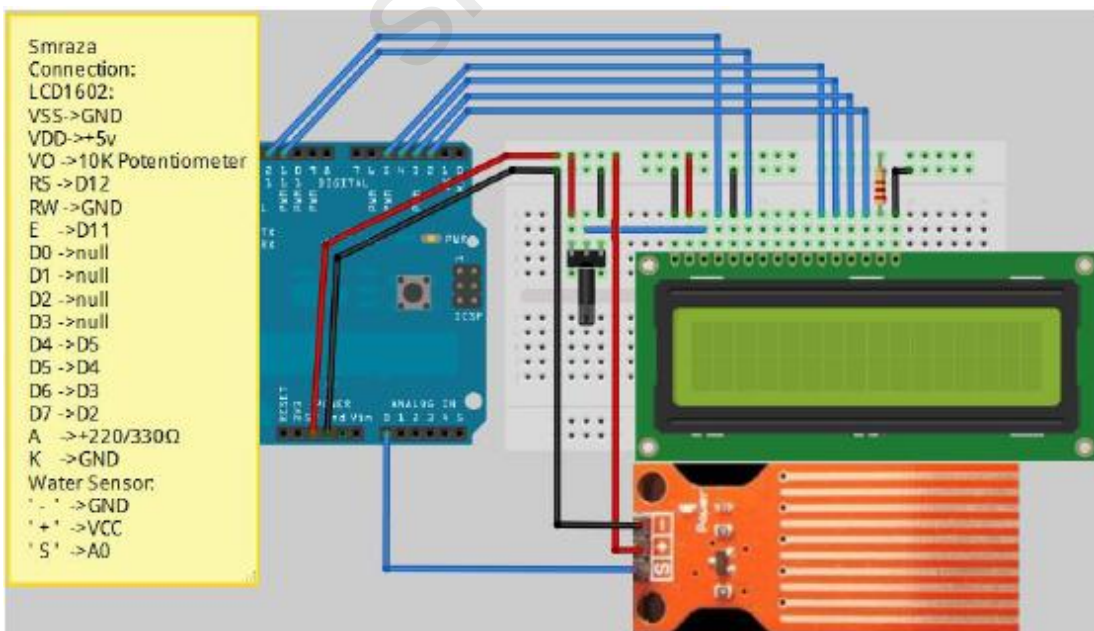
Material diagram	Material name	Number
	LCD1602	1
	Water Lever Sensor	1
	220/330Ω resistor	1
	10KΩ Potentiometer	1
	USB Cable	1
	UNO R3	1
	Breadboard	1
	Jumper wires	Several

Connection

Schematic



Connection diagram

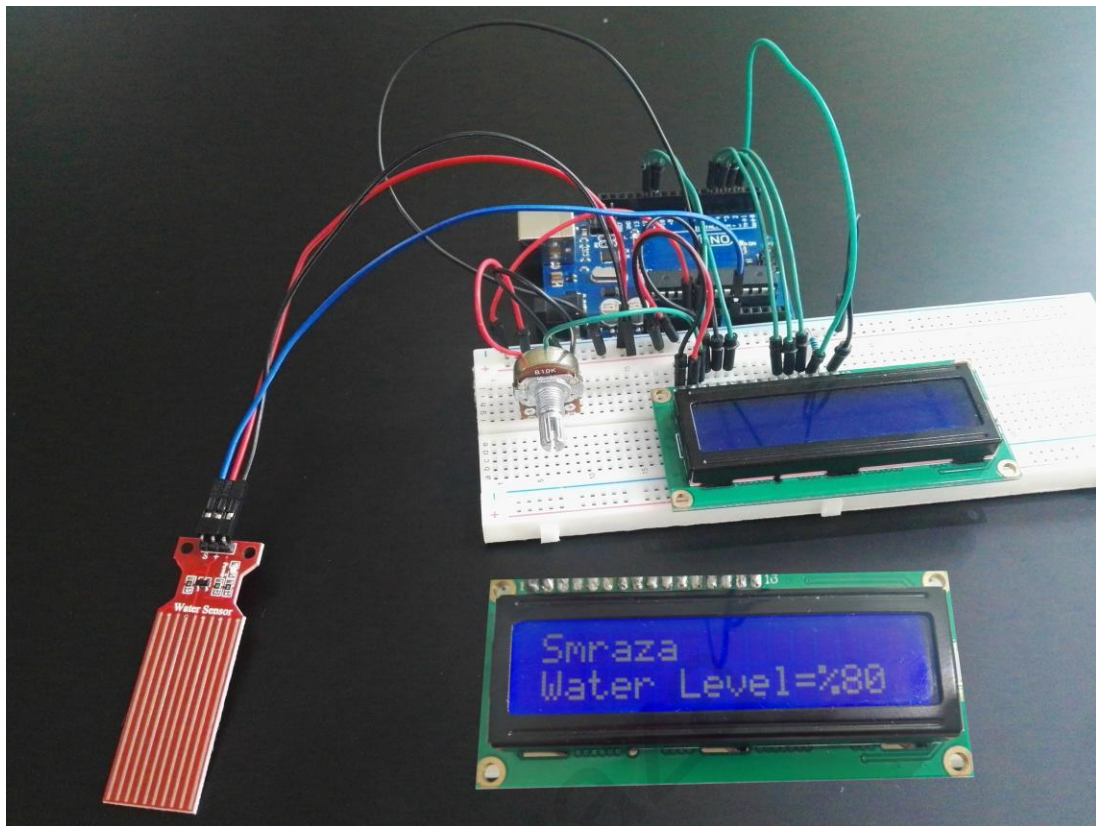


Sample code

Note: sample code under the **Sample code** folder

```
#include <LiquidCrystal.h>
LiquidCrystal lcd(12, 11, 5, 4, 3, 2);
int water = A0;
int val=0;
int count=0;
void setup()
{
    lcd.begin(16,2);
    lcd.print(" Welcome to ");
    lcd.setCursor(0,1);
    lcd.print("    Smraza");
    delay(2000);
    lcd.clear();
}
void loop()
{
    val=analogRead(water);
    if(val>220)
        count=val/2.2;
    else
        count=0;
    lcd.clear();
    lcd.print("Smraza");
    lcd.setCursor(0, 1) ;
    lcd.print("Water Level=%");
    lcd.print(count);
    delay(150);
}
```

Example picture



Language reference

Tips : click on the following name to jump to the web page.

If you fail to open, use the Adobe reader to open this document.

[analogRead\(\)](#)

Application effect

When the water level sensor enter water and make it of different height, the LCD will display different percentage.

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