

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

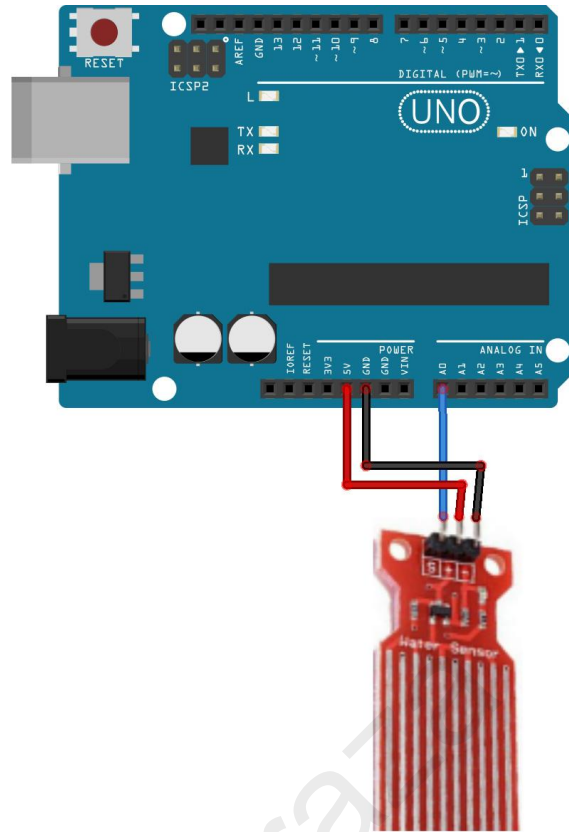
Pin definition

| | |
|--------|--------------------|
| UNO R3 | Water Lever Sensor |
| A0 | OUT |
| 5V | ' + ' |
| GND | ' - ' |

Hardware required

| Material diagram | Material name | Number |
|---|-----------------------------|---------|
|  | Water Lever Sensor | 1 |
|  | USB Cable | 1 |
|  | UNO R3 | 1 |
|  | Male to Female Jumper wires | Several |

Connection diagram

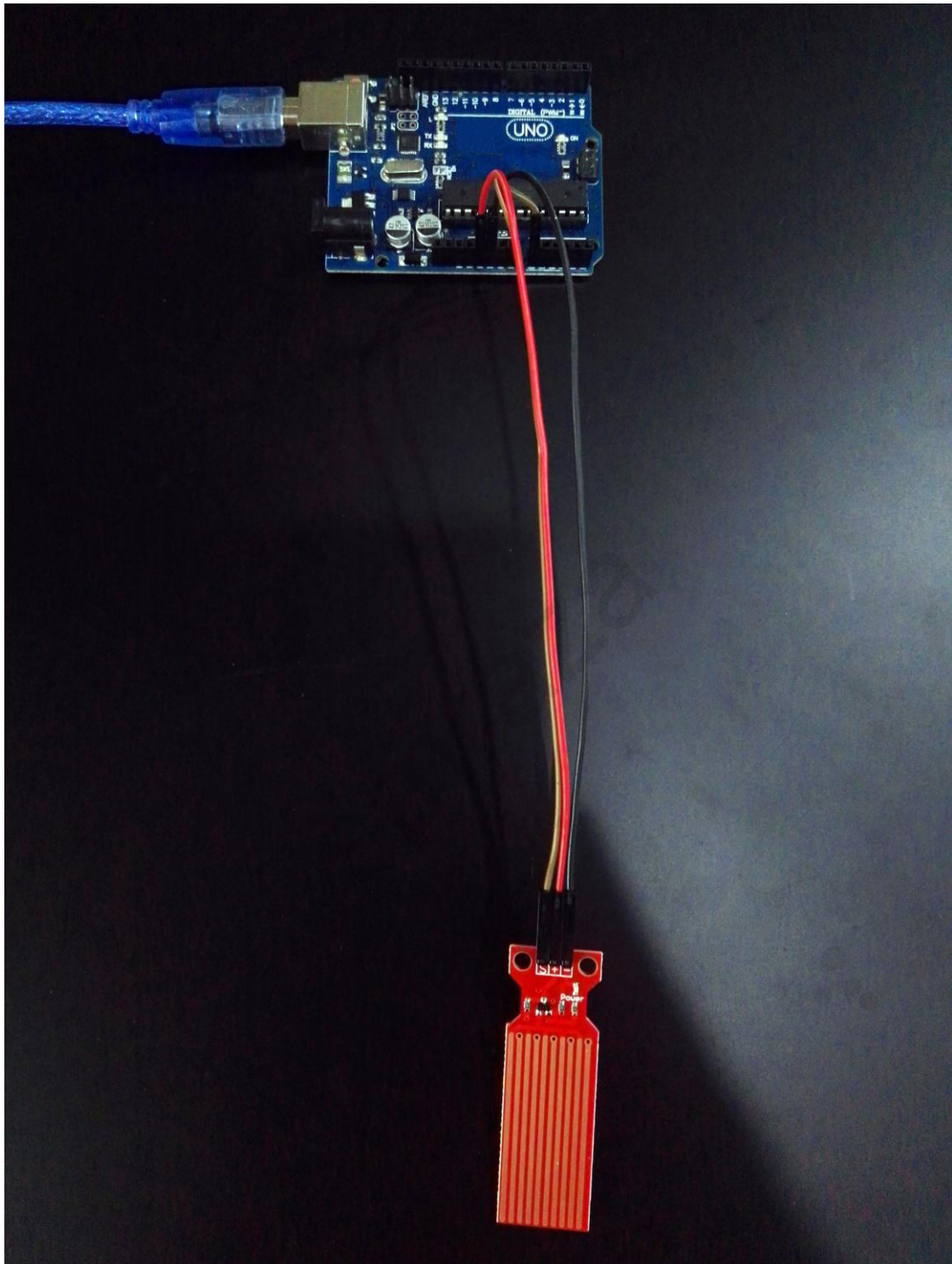


Sample code

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

```
int water = A0;
double val;
double count;
void setup()
{
  Serial.begin(9600);
  Serial.print("Welcome to ");
  Serial.println("Smraza");
}
void loop()
{
  val=analogRead(water);
  Serial.println(val);
  count=(val/650)*4;
  Serial.print("Water Level=%");
  Serial.println(count);
  delay(500);
}
```

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.

* About Smraza:

* We are a leading manufacturer of electronic components for Arduino and Raspberry Pi.

* Official website: <http://www.smraza.com/>

* We have a professional engineering team dedicated to providing tutorials and support to help you get started.

* If you have any technical questions, please feel free to contact our support staff via email at support@smraza.com

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