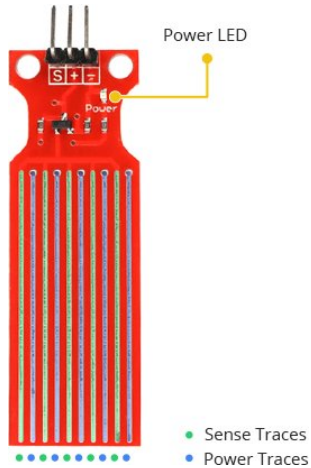
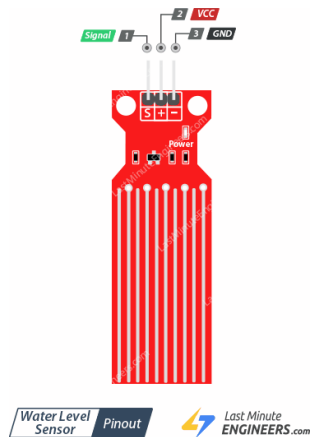


Principle

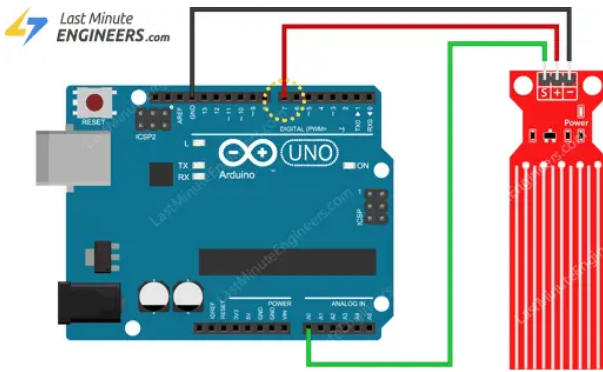
- The power and sense traces form a variable resistor (much like a potentiometer) whose resistance varies based on how much they are exposed to water.
 - The more water the sensor is immersed in, the better the conductivity and the lower the resistance.
 - The less water the sensor is immersed in, the poorer the conductivity and the higher the resistance.



Hardware Module



Schematic



☼ Use a digital pin to power the sensor only when taking a reading to reduce corrosion.

Software

```
int readSensor() {
    digitalWrite(sensorPower, HIGH); // Turn the sensor ON
    delay(10); // wait 10 milliseconds
    val = analogRead(sensorPin); // Read the analog value form sensor
    digitalWrite(sensorPower, LOW); // Turn the sensor OFF
    return val; // send current reading
}

void loop() {
    //get the reading from the function below and print it
    int level = readSensor();
    Serial.print("Water level: ");
    Serial.println(level);
    delay(1000);
}
```

Links

[In-Depth: How Water Level Sensor Works and Interface it with Arduino - Last Minute Engineers](#)