

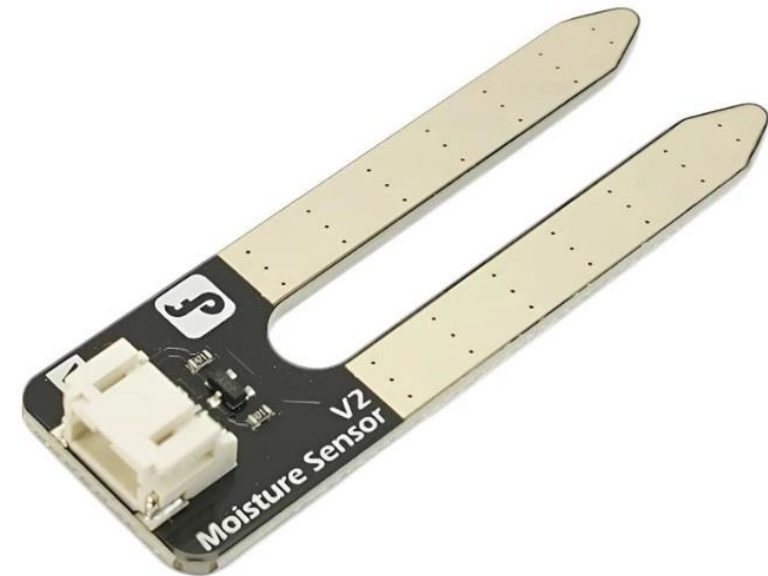
Gravity: Analog Soil Moisture Sensor

Overview

This Gravity: Analog Soil Moisture Sensor For Arduino can read the amount of moisture present in the soil surrounding it. It's a low tech sensor, but ideal for monitoring an urban garden or your pet plant's water level. This is a must have tool for a connected garden!

This moisture sensor uses the two probes to pass current through the soil, and then it reads that resistance to get the relative moisture level. More water makes the soil conduct electricity more easily (less resistance), while dry soil conducts electricity poorly (more resistance).

It can be helpful to remind you to water your indoor plants or to monitor the soil moisture in your garden.



Order Code

Order Code	Brand	Description
E30005-001	DFRobot	Gravity: Analog Soil Moisture Sensor

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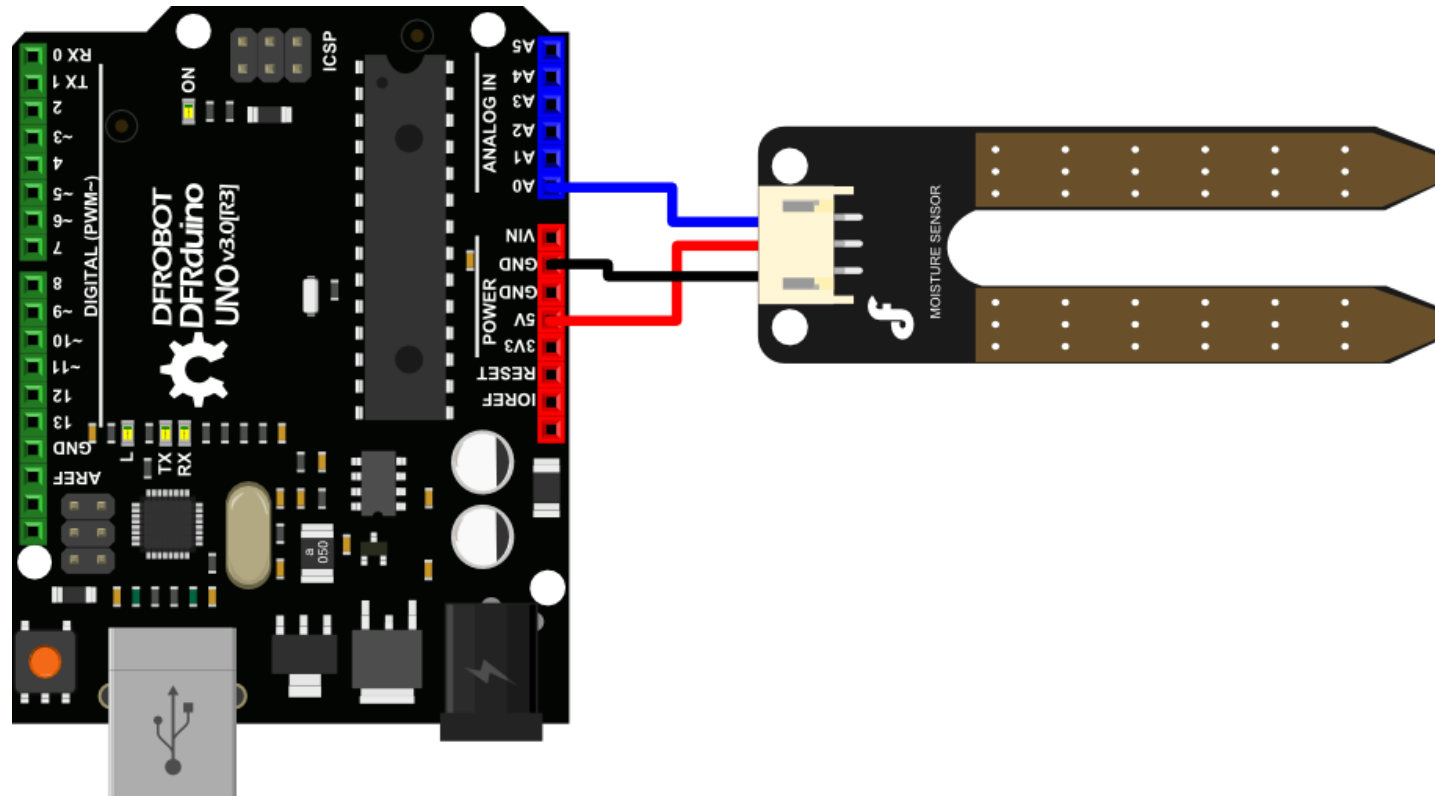


Specification

- Power supply: 3.3v or 5v
- Output voltage signal: 0~4.2v
- Current: 35mA
- Pin definition:
 - Analog output(Blue wire)
 - GND(Black wire)
 - Power(Red wire)
- Size: 60x20x5mm
- Value range:
 - 0 ~300 : dry soil
 - 300~700 : humid soil
 - 700~950 : in water

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Connection Diagram



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Sample Code

```
/*
# Example code for the moisture sensor
# Editor      : Lauren
# Date       : 13.01.2012
# Version    : 1.0
# Connect the sensor to the A0(Analog 0) pin on the Arduino board

# the sensor value description
# 0 ~300     dry soil
# 300~700    humid soil
# 700~950    in water
*/

void setup(){

  Serial.begin(57600);

}

void loop(){

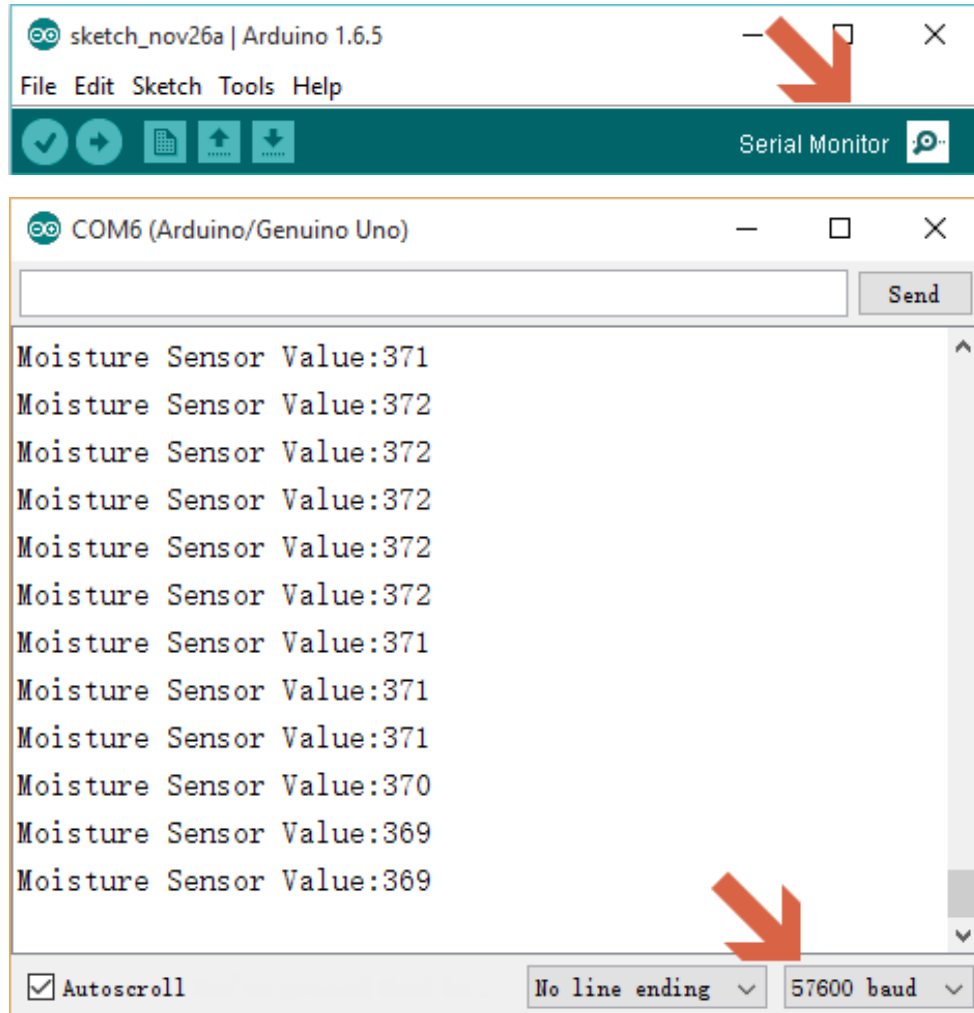
  Serial.print("Moisture Sensor Value:");
  Serial.println(analogRead(A0));
  delay(100);

}
```

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Expected Result

Open the Arduino Serial Monitor, and choose its baud rate 57600 as set in the code.



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Revision History

Date	Revision	Change description
30/10/2025	1.0	Initial release