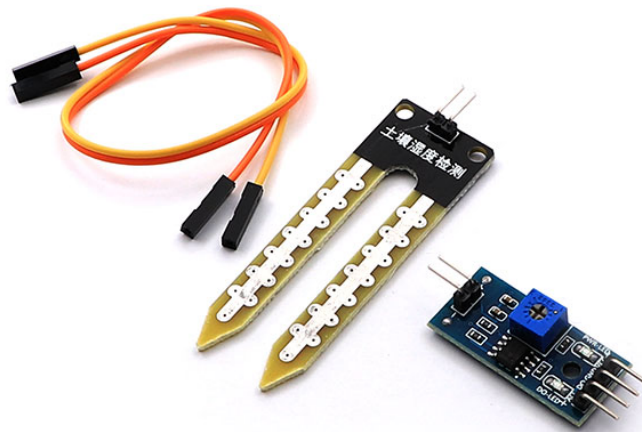


Arduino Soil Moisture Sensor Module

User Manual



Materials Required:

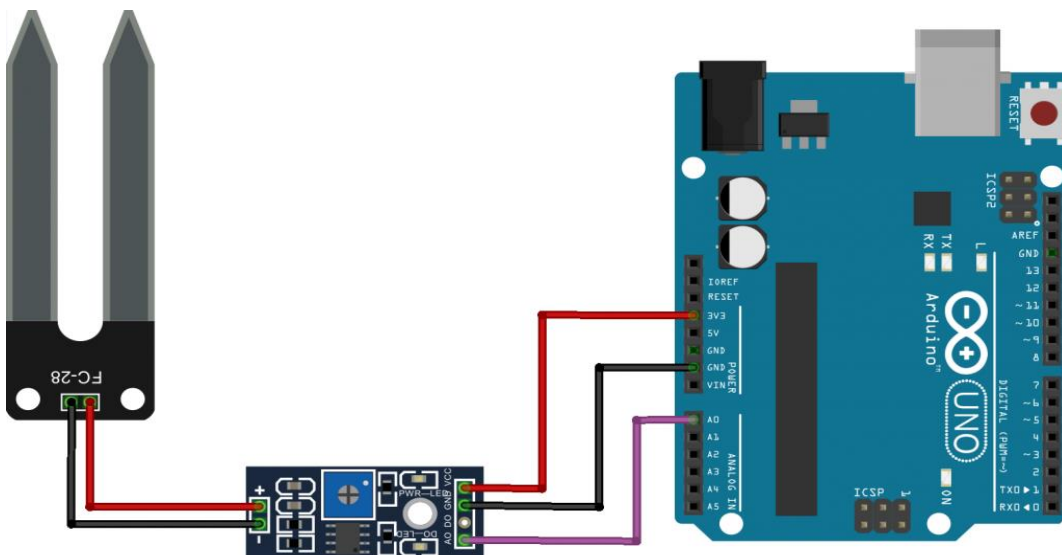
Hardware one is enough light level this time around.

- an arduino
- A CF-28 probe
- a pc

Connection:

We will use 3 son of 4.

We will take the analog output A0, the GND and 3V.



Foreword:

We need the maximum value and the minimum value of the lvleur. For this, the first thing is to download the code # 1 in the Arduino to have the desired values.

Once this is doing, go in a dry environment and watch the value displayed by said probe "in the air". For me, the value is 680.

For the trendiest minimum measurement, you need a glass of water and put the probe in. It will give the reference humidity, my value is 212.

Test Code:

```
1. // variable
2. int analogpin_FC28 = 0 ; // Analog Port
3.
4. void setup ()
5. {
6.   Serial . Begin ( 9600 );
7. }
8.
9. void loop ()
10. {
11.   Serial . System.out.println ();
12.   Serial . System.out.println ();
13.
14. // Read the value
15. int sensorValue = analogRead ( analogpin_FC28 );
16.
17. // Gross Display
18. Serial . Print ( "Value" );
19. Serial . Print ( sensorValue );
20.
21. delay ( 1000 );
22. }
```

Final Code:

Once found, replace the code and minValue maxValue by your data.

```
1. // variable
2. int analogpin_FC28 = 0 ; // Analog Port
3. int minValue = 212 ; // value in water
4. int maxValue = 680 ; // value to air
5.
6. void setup ()
7. {
8.   Serial . Begin ( 9600 );
9.   Serial . System.out.println ( "Soil moisture sensor input" );
10. }
11.
```

```
12. void loop ()
13. {
14. Serial . System.out.println ();
15. Serial . System.out.println ();
16.
17. // Read the value
18. int sensorValue = analogRead ( analogpin_FC28 );
19. sensorValue = constrain ( sensorValue , minValue , maxValue );
20.
21. // Gross Display
22. Serial . Print ( "Value" );
23. Serial . Print ( sensorValue );
24.
25. Serial . System.out.println ();
26.
27. // Calculate percentage
28. int soil = map ( sensorValue , minValue , maxValue , 100 , 0 );
29. Serial . Print ( "Either in percent:" );
30. Serial . Print ( soil );
31. Serial . Print ( "%" );
32.
33.
34. delay ( 1000 );
35. }
```