Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Moisture Sensor (SKU:SEN0114)

Contents

Introduction

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

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

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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Usage
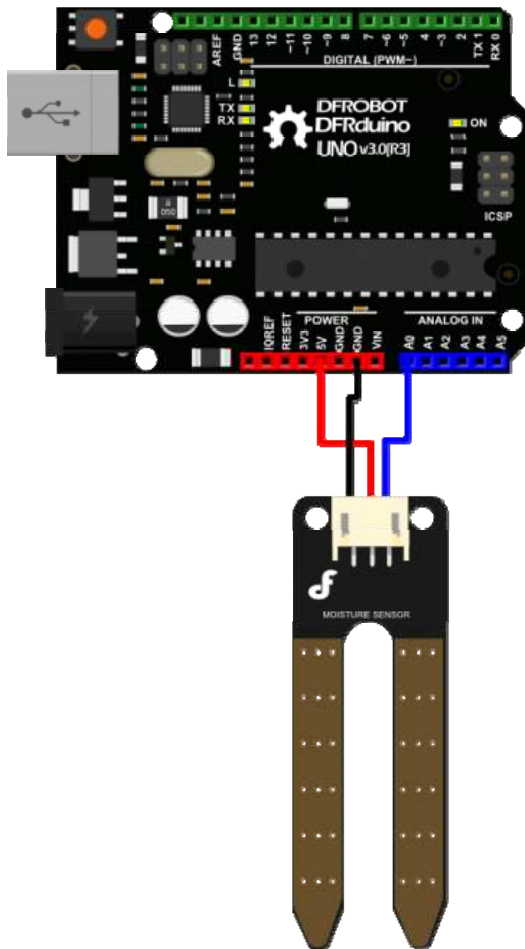
Moisture sensor Connection diagram

```
/*

   # 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);


}
```

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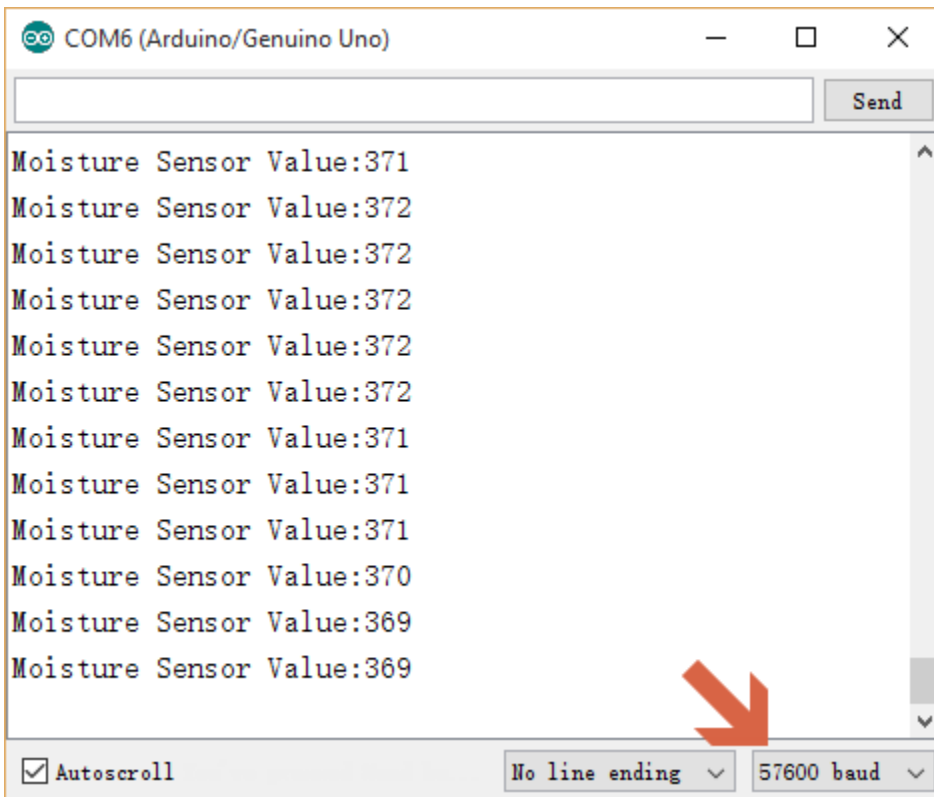
More

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  Relative humidity to absolute humidity calculator http://planetcalc.com/2167/