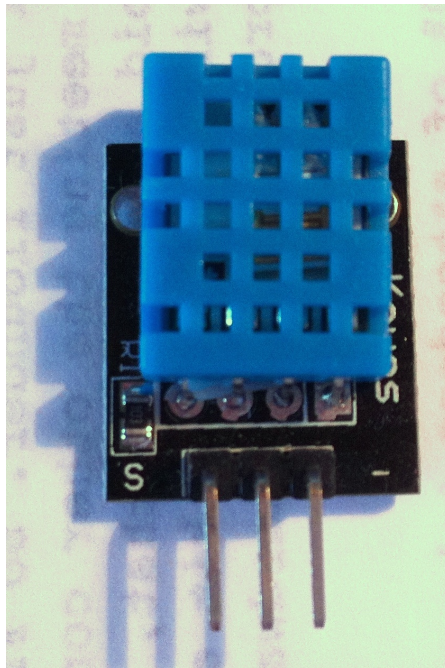


HELP - DHT11 Temp & Humid sensor



Sig 5V GND

Three wire interface, serial communication.

DHT Library

This is a new library, from Adafruit. This is an untested example of use:

```
// Oli weather station using DHT11 sensor

// DHT library
#include "DHT.h"

// wiring of sensor
#define DHTPIN 12

// create DHT object, type DHT11
DHT dht(DHTPIN, DHT11);

void setup() {
  Serial.begin(9600); // ask for serial connection
  while(!Serial); // wait for serial connection to start

  dht.begin(); // ask for DHT to start

  Serial.println("Temperature - Humidity - Dew Point");
  delay(2000); // wait 2 seconds before start
}

void loop() {
  float temp, humid, dew; // temperature, humidity and dewpoint

  Serial.println(""); // space line
  temp = dht.readTemperature(); // read temp in deg C
  humid = dht.readHumidity(); // read humidity in %
```

```
Serial.print("Temperature (C): ");
Serial.println(temp);
Serial.print("Humidity (%): ");
Serial.println(humid);

dew = dewPoint(temp, humid); // calculate dewpoint
Serial.print("Dewpoint (C): ");
Serial.println(dew);
}

// calculate dewpoint
float dewPoint(float t, float h) {
  float a, b, tmp; // a & b constants, temporary variable

  a = 17.271;
  b = 237.7;

  tmp = (a * t) / (b + h) + log(h * 0.01);

  return (b * tmp) / (a - tmp);
}
```