**Sample DHT Temperature/Humidity Arduino Sketch**

<https://github.com/futureshocked/arduino_sbs/blob/master/Temperature%20and%20Humidity/DHTtester/DHTtester.ino>

Adafruit Github DHT library files

<https://github.com/adafruit/DHT-sensor-library>

Adafruit DHT tutorial

<https://learn.adafruit.com/dht>

|  |
| --- |
| // Example testing sketch for various DHT humidity/temperature sensors |
|  |

|  |
| --- |
| // Written by ladyada, slightly modified, public domain |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| #include "DHT.h" |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| #define DHTPIN 2 // what pin we're connected to |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| // Uncomment whatever type you're using! |
|  |

|  |
| --- |
| //#define DHTTYPE DHT11 // DHT 11 |
|  |

|  |
| --- |
| #define DHTTYPE DHT22 // DHT 22 (AM2302) |
|  |

|  |
| --- |
| //#define DHTTYPE DHT21 // DHT 21 (AM2301) |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| DHT dht(DHTPIN, DHTTYPE); |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| void setup() { |
|  |

|  |
| --- |
| Serial.begin(9600); |
|  |

|  |
| --- |
| Serial.println("DHT test"); |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| dht.begin(); |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| void loop() { |
|  |

|  |
| --- |
| // Reading temperature or humidity takes about 250 milliseconds! |
|  |

|  |
| --- |
| // Sensor readings may also be up to 2 seconds 'old' (its a very slow sensor) |
|  |

|  |
| --- |
| float h = dht.readHumidity(); |
|  |

|  |
| --- |
| float t = dht.readTemperature(); |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| // check if returns are valid, if they are NaN (not a number) then something went wrong! |
|  |

|  |
| --- |
| if (isnan(t) || isnan(h)) { |
|  |

|  |
| --- |
| Serial.println("Failed to read from DHT"); |
|  |

|  |
| --- |
| } else { |
|  |

|  |
| --- |
| // Uncomment these lines if you prefer to use the Fahrenheit scale |
|  |

|  |
| --- |
| // instead of Celsius. Remember to change line 44 so that the |
|  |

|  |
| --- |
| // symbol is "F" instead of "C" |
|  |

|  |
| --- |
| // float fahrenheitTemp = t \* 9.0/5.0+32.0; |
|  |

|  |
| --- |
| // Serial.print("Temperature: "); |
|  |

|  |
| --- |
| // Serial.print(fahrenheitTemp); |
|  |

|  |
| --- |
| // Serial.println(" F"); |
|  |

|  |
| --- |
|  |
|  |

|  |
| --- |
| Serial.print("Humidity: "); |
|  |

|  |
| --- |
| Serial.print(h); |
|  |

|  |
| --- |
| Serial.print(" %\t"); |
|  |

|  |
| --- |
| Serial.print("Temperature: "); |
|  |

|  |
| --- |
| Serial.print(t); |
|  |

|  |
| --- |
| Serial.println(" \*C"); |
|  |

|  |
| --- |
| } |
|  |

|  |
| --- |
| delay(5000); //Insert a 5sec delay between readings |
|  |

|  |
| --- |
| } |
|  |