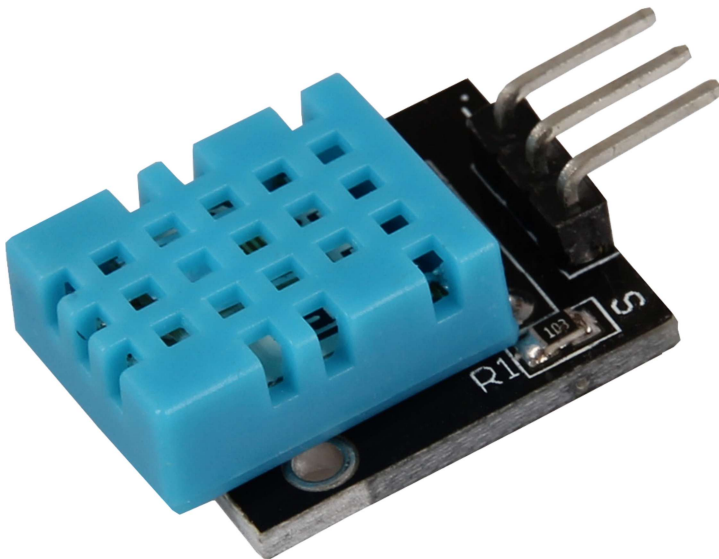


KY-015 COMBI-SENSOR (TEMPERATURE & HUMIDITY)

This sensor is a mixture of temperature sensor and humidity sensor in a compact design.

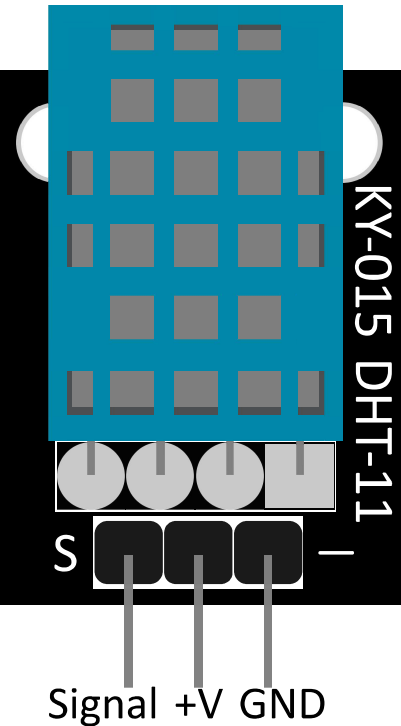
Arduino Raspberry Pi Micro:Bit



This sensor is a combination of temperature sensor and humidity sensor, united in a compact design. The disadvantage is the low sampling rate of the measurement, so that only every 2 seconds a new measurement result is available. This sensor is therefore particularly suitable for long-term measurements.

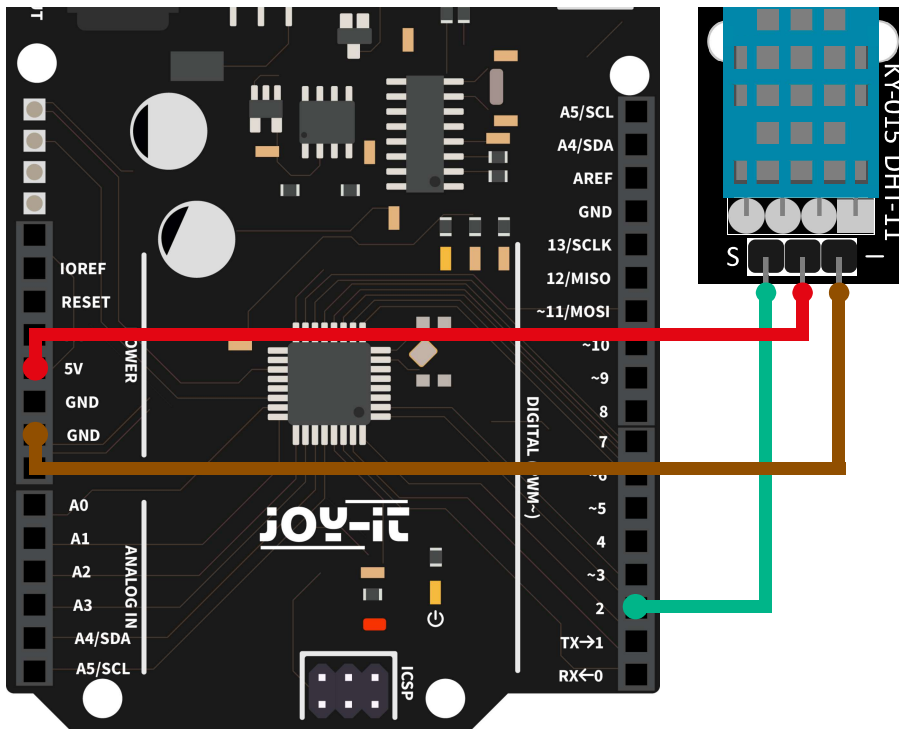
Chipset	DHT11
Communication Protocol	1-Wire
Measuring range	0 °C to 50 °C
Measurement accuracy	±2 °C
Measurement Accuracy	±5%RH
Measurable humidity	20-90%RH

PIN ASSIGNMENT



CODE EXAMPLE ARDUINO

PIN ASSIGNMENT ARDUINO



ARDUINO

Pin 2

5 V

GND

SENSOR

Signal

+V

GND

For the following code example an additional library is needed:

DHT-sensor-library by Adafruit | published under the **MIT License**.

This sensor does not output its measurement result as an analog signal to an output pin, but communicates it digitally encoded.

The example below uses the mentioned library. Therefore, download the library and unpack it into your Arduino library folder, which by default is located at (C:\User[username]\Documents\Arduino\libraries). Alternatively, it is also included in the download package below.

```
// Adafruit_DHT library is inserted
#include "DHT.h"

// Here the respective input pin can be declared
#define DHTPIN 2
```

```
9  DHT dht(DHTPIN, DHTTYPE);
10
11 void setup()
12 {
13     Serial.begin(9600);
14     Serial.println("KY-015 test - temperature and humidity test:");
15
16     // Measurement is started
17     dht.begin();
18 }
19
20 // Main program loop
21 // The program starts the measurement and reads out the measured va
22 // There is a pause of 2 seconds between measurements,
23 // so that a new measurement can be acquired on the next run.
24 void loop() {
25
26     // Two seconds pause between measurements
27     delay(2000);
28
29     // Humidity is measured
30     float h = dht.readHumidity();
```