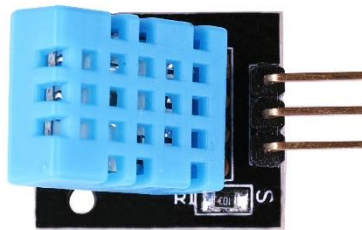


Temperature and Humidity Module

DESCRIPTION:

DHT11 digital temperature and humidity sensor is a composite Sensor contains a calibrated digital signal output of the temperature and humidity. Application of a dedicated digital modules collection technology and the temperature and humidity sensing technology, to ensure that the product has high reliability and excellent long-term stability. The sensor includes a resistive sense of wet components and an NTC temperature measurement devices, and connected with a high-performance 8-bit microcontroller.



Specification:

- Model No : DHT11
- Voltage : 5V DC
- Temperature Range : 0~50°C
- Humidity Range : 20~90%
- Accuracy : +/-0.2°C, +/-5%

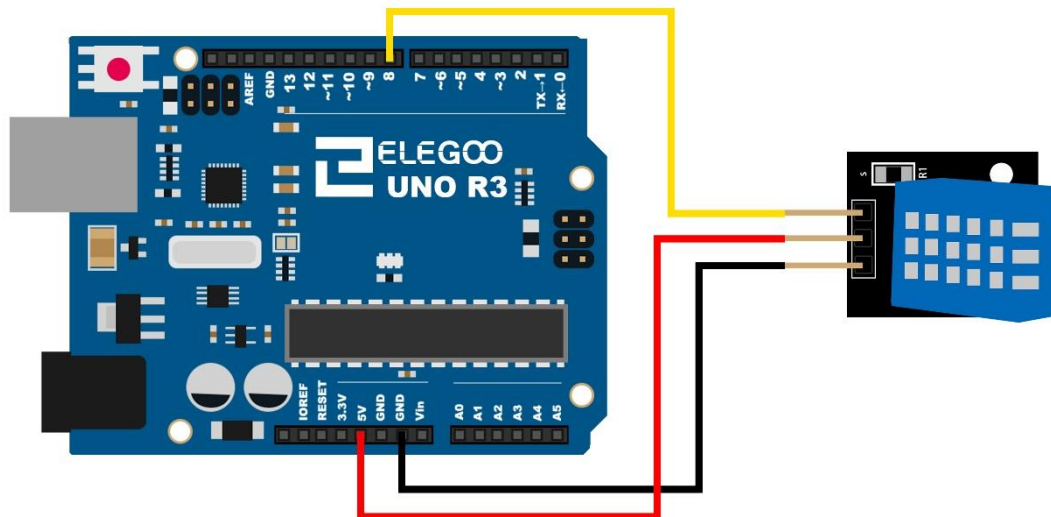
PIN CONFIGURATION:

- 1、 "S": Analog output pin, real-time output voltage signal
- 2、 "+" : +5V
- 3、 "-" : GND

Example:

Here is an example for displaying realtime temperature and ambient humidity. You can open the serial monitor to see the display effect.

The connection is as follows:



Code:

```
#include <dht_nonblocking.h>

#define DHT_SENSOR_TYPE DHT_TYPE_11

static const int DHT_SENSOR_PIN = 8;

DHT_nonblocking dht_sensor( DHT_SENSOR_PIN, DHT_SENSOR_TYPE );

void setup( )
{
    Serial.begin( 9600);
}

void loop( )
{
    float temperature;
    float humidity;
```

```
if(dht_sensor.measure(&temperature, &humidity)){  
    Serial.print( "T = " );  
    Serial.print( temperature, 1 );  
    Serial.print( " deg. C, H = " );  
    Serial.print( humidity, 1 );  
    Serial.println( "%" );  
}  
}
```

Result:

