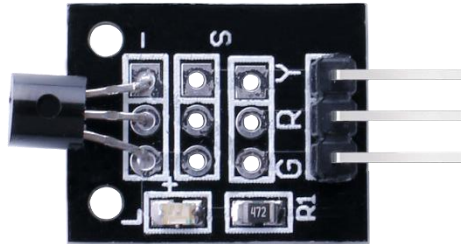


DS18B20 Temperature Sensor Module

DESCRIPTION:

This module is temperature sensor with chip DS18B20, It's different from other NTC- MF523950 temperature sensor(ST1147) or LM35 temperature sensor(SE039).



Specification:

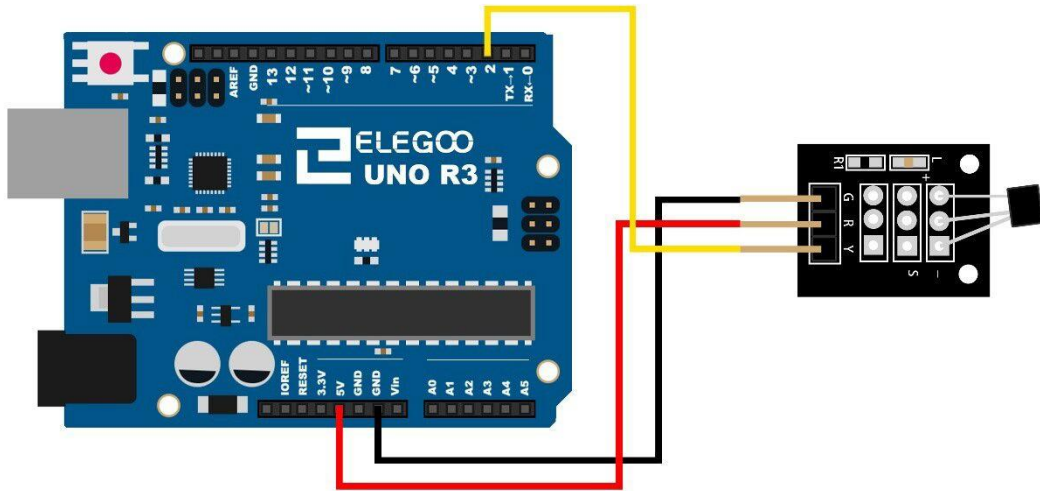
- **Chip** : DS18B20
- **Temperature Range** : -55℃~+125℃
- **Accuracy** : +/-0.5℃
- **Supply voltage** : 5V DC

PIN CONFIGURATION:

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

Example:

This is a simple code for the DS18B20 temperature module, Wire as below:



Code:

```
// Include the libraries we need
#include <OneWire.h>
#include <DallasTemperature.h>

// Data wire is plugged into port 10 on the Arduino
#define ONE_WIRE_BUS 10

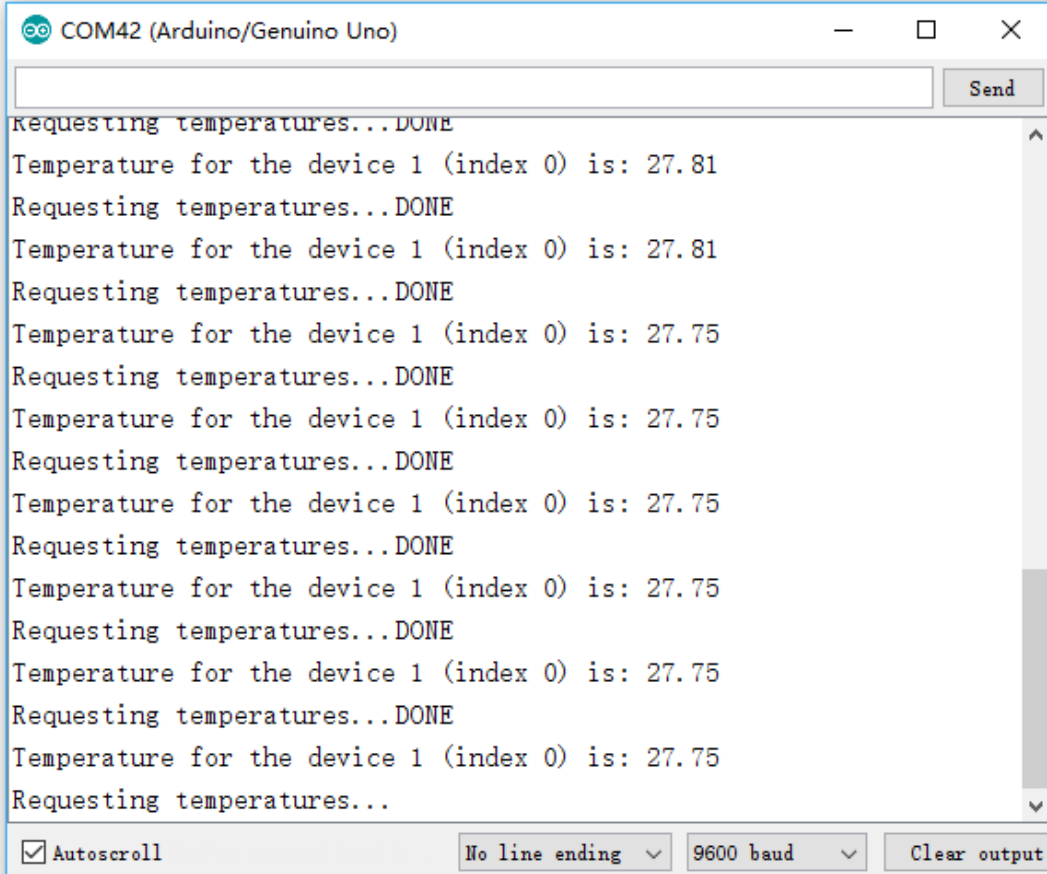
// Setup a oneWire instance to communicate with any OneWire devices (not just
Maxim/Dallas temperature ICs)
OneWire oneWire(ONE_WIRE_BUS);

// Pass our oneWire reference to Dallas Temperature.
DallasTemperature sensors(&oneWire);

/*
 * The setup function. We only start the sensors here
```

```
*/  
void setup(void)  
{  
    // start serial port  
    Serial.begin(9600);  
    Serial.println("Dallas Temperature IC Control Library Demo");  
  
    // Start up the library  
    sensors.begin();  
}  
  
/*  
 * Main function, get and show the temperature  
 */  
void loop(void)  
{  
    // call sensors.requestTemperatures() to issue a global temperature  
    // request to all devices on the bus  
    Serial.print("Requesting temperatures...");  
    sensors.requestTemperatures(); // Send the command to get temperatures  
    Serial.println("DONE");  
    // After we got the temperatures, we can print them here.  
    // We use the function ByIndex, and as an example get the temperature from the  
first sensor only.  
    Serial.print("Temperature for the device 1 (index 0) is: ");  
    Serial.println(sensors.getTempCByIndex(0));  
}
```

Result:



The screenshot shows the 'Serial Monitor' window for 'COM42 (Arduino/Genuino Uno)'. The window contains a text area with the following output:

```
requesting temperatures...DONE
Temperature for the device 1 (index 0) is: 27.81
Requesting temperatures...DONE
Temperature for the device 1 (index 0) is: 27.81
Requesting temperatures...DONE
Temperature for the device 1 (index 0) is: 27.75
Requesting temperatures...DONE
Temperature for the device 1 (index 0) is: 27.75
Requesting temperatures...DONE
Temperature for the device 1 (index 0) is: 27.75
Requesting temperatures...DONE
Temperature for the device 1 (index 0) is: 27.75
Requesting temperatures...DONE
Temperature for the device 1 (index 0) is: 27.75
Requesting temperatures...DONE
Temperature for the device 1 (index 0) is: 27.75
Requesting temperatures...
```

At the bottom of the window, there are settings: ☒ Autoscroll, a dropdown menu set to 'No line ending', a dropdown menu set to '9600 baud', and a 'Clear output' button.