

Arduino & DS18B20 Temperature Measurement

The Introduction:

You can use DS18B20 Module controlled by Arduino Board to detect the environment temperature, the data is transferred via your PC's serial port. If you want to test your fingers temperature, you just need to put your finger on DS18b20 sensor then you can read it directly on your PC screen. DS18b20 sensor is widely used in Industrial temperature measurement, Weather forecasting, Medical temperature measurement and Robot temperature detection etc... The following example is about how to detect the environmental temperature using Arduino board & DS18B20 Sensor Module..

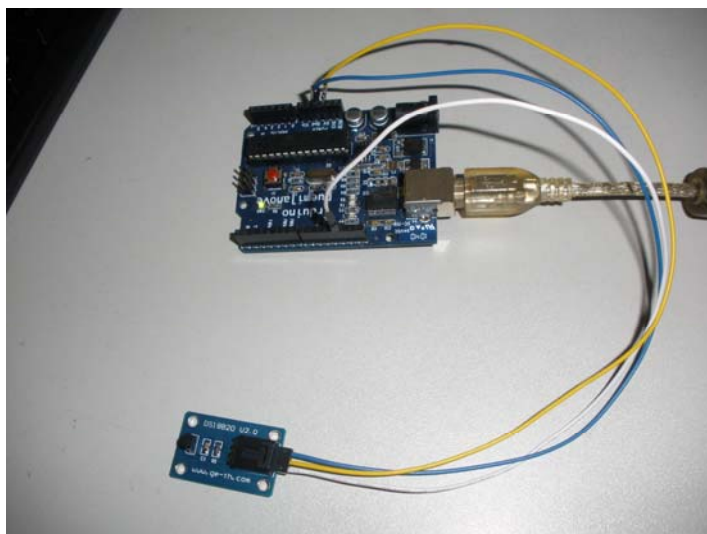


Diagram DS18B20 Module

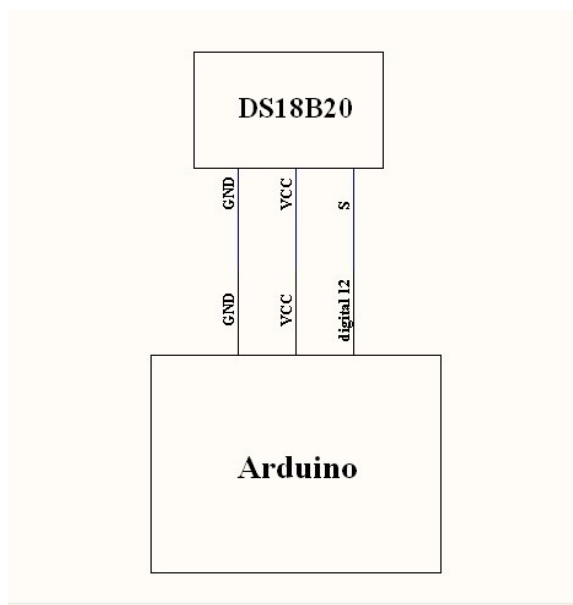
HK GETECH CO., LTD

E-Mail: support@geeetech.com MSN: Rockylou84@hotmail.com

Tel: +86 755 2658 4110 Fax: +86 755 2658 4074 Phone: +86 137 2877 2361



DS18B20 Module Version 2.0

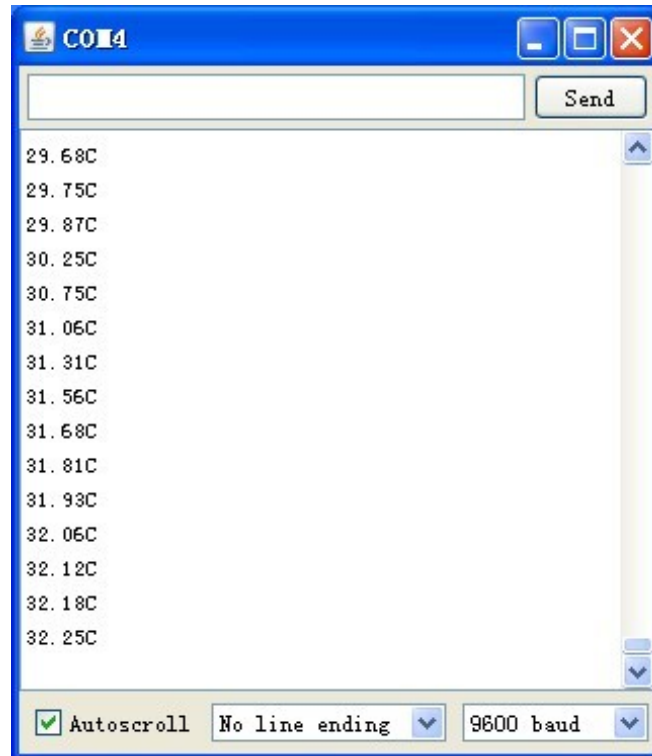


DS18B20 and Arduino Board Connection Diagram

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**Program Code:**

```
#include <DallasTemperature.h>
DallasTemperature tempSensor;
void setup(void)
{
  Serial.begin(9600);
  tempSensor.begin(12); }
void loop(void)
{
  switch(tempSensor.isValid())
  {
  case 1:
    Serial.println("Invalid CRC");
    tempSensor.reset();      return;
  case 2:
    Serial.println("Not a valid device");
    tempSensor.reset();      return;
```

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```
}  
Serial.print(tempSensor.getTemperature());  
Serial.print("C");  
Serial.println();  
}
```

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