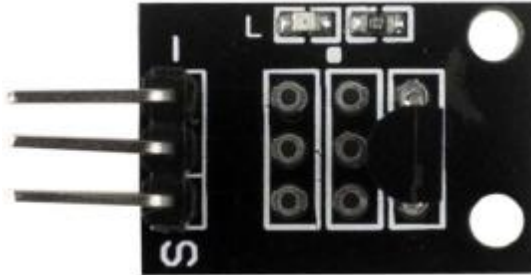


# DS18B20 Experiment

## Overview



This lesson will teach you how to use DS18B20 module, which is simple and easy to use.

## Specification

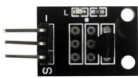



Please view "DS18B20-datasheet.pdf"

Path: \Public\_materials\Datasheet\ DS18B20-datasheet.pdf

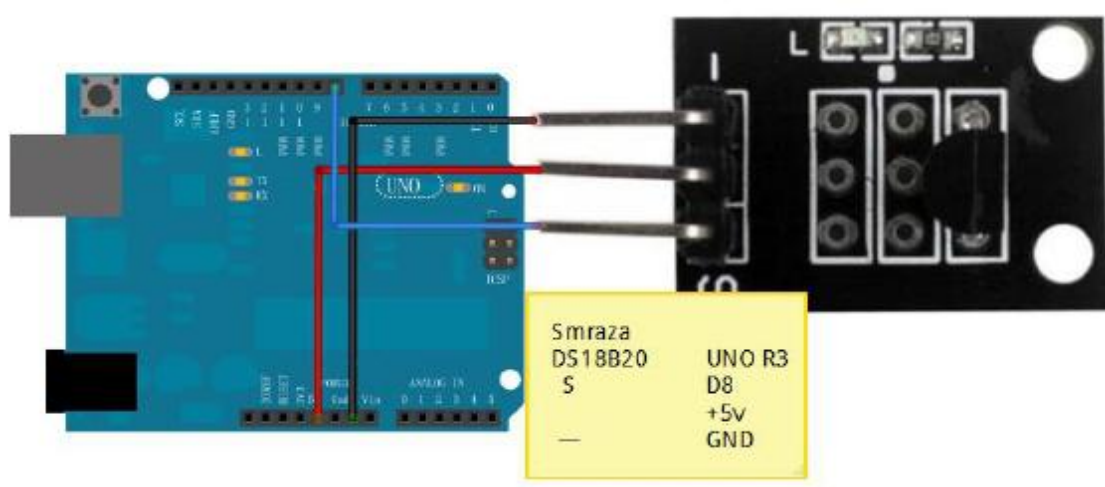
## Pin definition

UNO R3	DS18B20
D8	S
5V	
GND	"_"

## Hardware required

Material diagram	Material name	Number
	DS18B20	1
	UNO R3	1
	USB Cable	1
	Male to Female Jumper wires	several

## Connection diagram



## Sample code

**Note:** sample code under the **Sample code** folder.

You need to add the DHT11 to the Arduino library file directory, otherwise the compiler does not pass. **Please refer to 'How to add library files.docx'.**

```
#include "DS18B20.h"
DS18B20 ds(8,1);
void setup()
{
    Serial.begin(9600);
}
void loop()
{
    ds.start();
    delay(200);
    Serial.println(ds.get(0));
    delay(200);
}
```

## Language reference

**Tips :** Click on the following name to jump to the web page.

If you fail to open, use the Adobe reader to open this document.

[Serial](#)

## Application effect

Open the serial port monitor, you will see some different values by return.

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\* About Smraza:

\* We are a leading manufacturer of electronic components for Arduino and Raspberry Pi.

\* Official website: <http://www.smraza.com/>

\* We have a professional engineering team dedicated to providing tutorials and support to help you get started.

\* If you have any technical questions, please feel free to contact our support staff via email at [support@smraza.com](mailto:support@smraza.com)

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