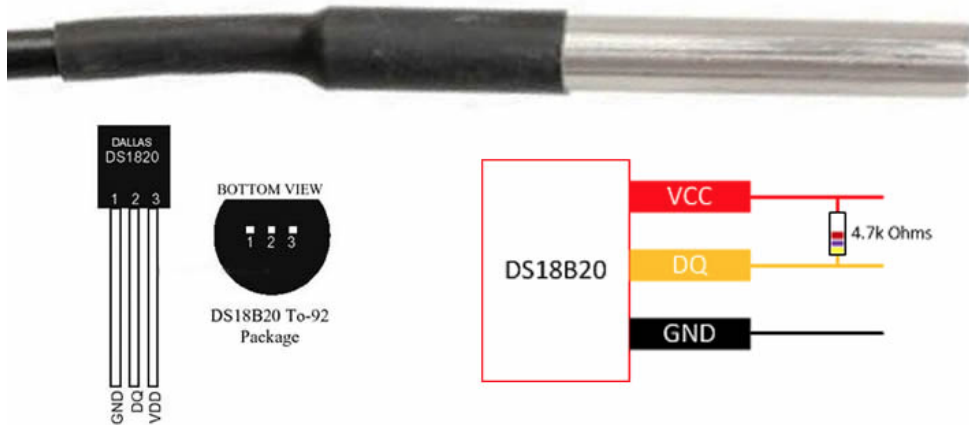


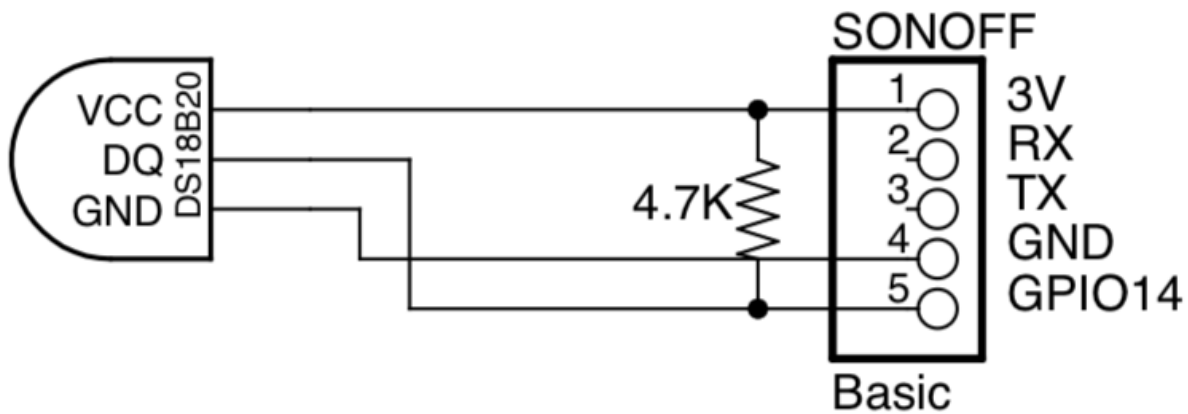
Temperature Sensor with Sonoff Basic

You can add a number of different sensors to the Sonoff devices. This document will describe how to add a **DS18B20 temperature sensor**.

The DS18B20 1-Wire digital temperature sensor from Maxim IC reports degrees C with 9 to 12-bit precision, -55C to 125C (+/-0.5C). Each sensor has a unique 64-Bit Serial number etched into it - allows for a huge number of sensors to be used on one data bus.



Wiring the DS18B20



Configuring the Sonoff

Sonoff Basic Module

Sonoff98

Module parameters

Module type (Sonoff Basic)
01 Sonoff Basic

GPIO1 Serial Out 00 None

GPIO3 Serial In 00 None

GPIO4 00 None

GPIO14 Sensor 04 DS18x20

Save

Configuration

Retrieving the temperature via HTTP

<http://sonoff/cm?user=<USER>&password=<PASS>&cmnd=status%2010>

Output:

```
{
  StatusSNS: {
    Time: "2018-06-14T07:34:49",
    DS18B20: {
      Temperature: 21.8
    },
    TempUnit: "C"
  }
}
```

Integrating with MQTT

Sonoff Basic Module

Sonoff98

MQTT parameters

Host ()
192.168.1.60

Port (1883)
1883

Client (DVES_79DDCC)
sonoff98

User (DVES_USER)
sonoff98

Password
.....

Topic = %topic% (sonoff)
sonoff98

Full Topic (%prefix%/ %topic%/)
%prefix%/ %topic%/

Save

The temperature information will be published to the

`tele/<SONOFFDEVICE>/SENSOR`

```
{"Time": "2018-06-14T07:56:34", "DS18B20": {"Temperature": 21.9}, "TempUnit": "C"}
```

Setting interval at which the sonoff will report its status

Display current interval

```
> TelePeriod
```

Set interval

```
> TelePeriod <seconds>
```

Integrating with Homebridge

Install the mqtt-temperature-tasmota homebridge plugin.

```
> npm install -g homebridge-mqtt-temperature-tasmota
```

Configure the plugin in homebridge's config.json file:

```
{
    "accessory": "mqtt-temperature-tasmota",
    "name": "sonoff98",
    "url": "mqtt://192.168.1.60",
    "username": "MQTTUSER",
    "password": "MQTTPASS",
    "topic": "tele/sonoff98/SENSOR"
},
```

References

Reference	URL
Temperature Sensor - DS18B20	http://wiki.jmehlan.com/display/KNOW/Temperature+Sensor+-+DS18B20
Sonoff Basic	http://wiki.jmehlan.com/display/KNOW/Sonoff+Basic
Sonoff-Tasmota MQTT Overview	https://github.com/arendst/Sonoff-Tasmota/wiki/MQTT-Overview
Sonoff-Tasmota Sensor Configuration	https://github.com/arendst/Sonoff-Tasmota/wiki/Sensor-Configuration
Sonoff-Tasmota Commands	https://github.com/arendst/Sonoff-Tasmota/wiki/Commands
MQTT Web Client	http://www.hivemq.com/demos/websocket-client/