

# TH10/TH16: Temperature And Humidity Monitoring WiFi Smart Switch

## New device for makers who want to build their own smart home system: Sonoff SC

Sonoff is a universal switch for your smart home system to remotely and automatically turn on/off any appliances. Work with the Sonoff SC, you can make it more smart. Learn more about Sonoff SC [HERE](#).



## Overview

Sonoff TH10/TH16 is a wireless temperature and humidity monitoring switch which can remote monitor and set temperature and humidity range to turn on/off connected appliances through the iOS/Android APP eWeLink. Just as the name indicates, the Sonoff TH temperature and humidity monitor device supports two maximum current supply specifications: 10A or 16A.

Sonoff TH10/ TH16 remote temperature monitor and wireless humidity monitor WiFi switch supports presetting the range for temperature or humidity. When the temperature or humidity of the environment falls within the range, it will automatically turn on or off the connected devices.

Sonoff TH10/ TH16 supports three kinds of temperature monitor and humidity monitor sensors, mentioned below:

- AM2301, DS18B20, DHT11


**Note:** the sensors are not in the package of Sonoff TH10 /TH16, you have to enter the number you want to order in the corresponding field.

With the latest eWeLink app, users can create a series of simple conditional statement (Smart Scene) to trigger on/off other smart devices. This means users can use Sonoff TH10 or Sonoff TH16 with AM2301, DS18B20 or DHT11 sensor to collect temperature/humidity data, which can be used to as a condition to


trigger on/off other devices, such as Sonoff, Sonoff RF, Sonoff SV, S20 smart socket (see below pic).  
This device works perfectly with electric fan, air conditioner, humidifier, smart fish tank, watering system,  
etc.


← Add new scene


example

When it meets: 

Sonoff TH10

Temperature  $\geq 27$  

Execute: 



OpenSonoff 

SAVE

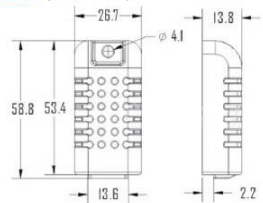
DELETE

Remotely monitor  
Temp. & Hum

AM2301 high accuracy  
temperature&humidity  
sensor



Dimension(unit:mm)



**Characteristics Parameter**

<b>Measuring range:</b>	<b>Sensor type:</b>
Temperature:-40°C~+80°C	Temperature: resistive sensor
Humidity:0~99.9%RH	Humidity:capacitive sensors
Accuracy:(in 25°C)	Operating temp. range:40°C~+80°C
Temperature:±0.5°C	Power supply: 3.3-5.2V
Humidity:±3%RH(10...90%RH)	DC(5V recommended )
	Weight:14g

Waterproof DS18B20  
Temperature Sensor



Stainless steel temperature probe  
3.0-5.5V power supply  
Measuring range:-55°C~+125°C

We are selling two kinds of sensors: [AM2301](#) and [DS18B20\(measures temperature only\)](#). We've customized an interface for Sonoff TH10/TH16 to easily connect with the sensor-just plug and play. Note that the sensor should be plugged before power up. It is not advised to plug or unplug the sensor in power on state. Furthermore, AM2301 is non-waterproof, while DS18B20 is waterproof.

#### Useful Links:

[User Manual for Sonoff TH WiFi Wireless Switch](#)

### Works With Amazon Alexa

This product works with Amazon Alexa. You can ask Alexa to control the device with the following voice commands. Please note that only US/UK English and German voice commands are supported now.

**Try out these phrases** ( {deviceName} should be the name of your device):

Alexa, turn on {deviceName}

Alexa, turn off {deviceName}

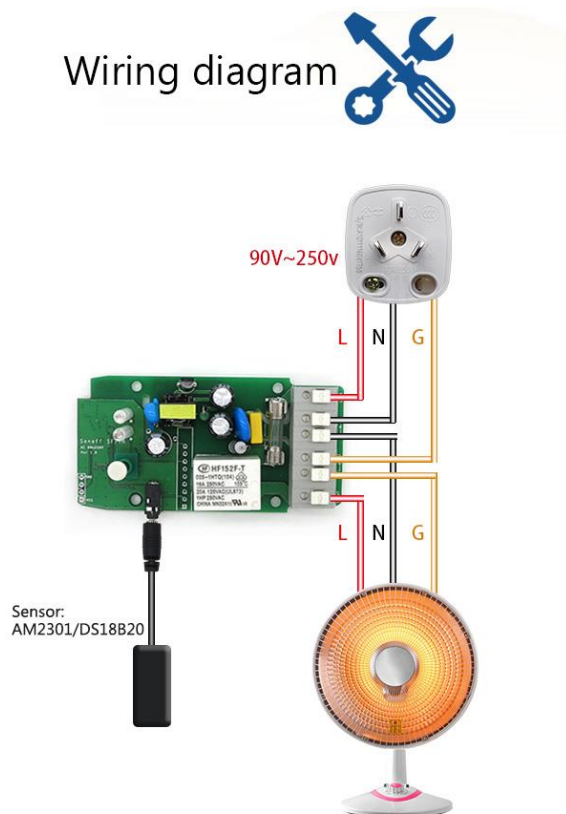
Alexa, turn {deviceName} off

Alexa, turn {deviceName} on

Alexa, schalte Gerätename ein

Alexa, schalte Gerätename aus

For detailed tutorial, please click [here](#).



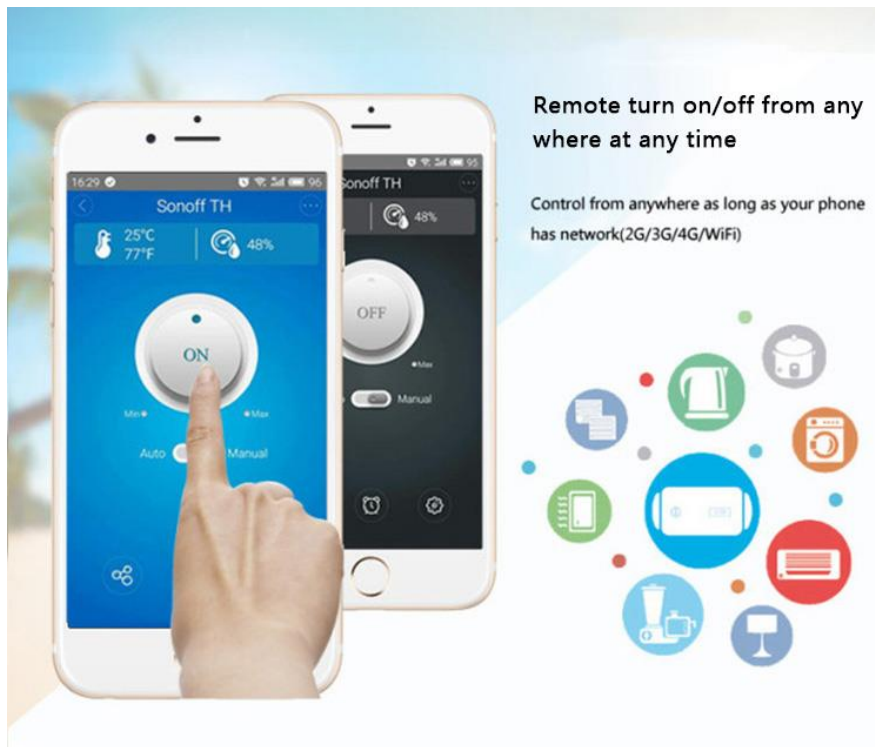
### Features

- Supports tracking device status
- Supports remote turn on/off connected appliance
- Supports presetting temperature and humidity to turn on/off
- Supports 8 enabled countdown/single/repeat timing tasks
- Support checking real-time temperature and humidity

- Support setting smart scene to trigger on/off other smart devices
- Works with Alexa
- Works with Nest

## Specification

- Input voltage: 90~ 250V AC
- Input current: Max 10A /16A
- Power: 2200W(10A) /3500W(16A)
- Supports 3 temperature and humidity sensors (AM2301, DS18B20, DHT11)



Timing Schedules  
 Supports single/repeat timing tasks  
 Supports countdown timer  
 Executes even when network is off

