

SONOFF WTS01

SONOFF WTS01 High Precision Temperature Sensor User Manual

Model: WTS01 | Brand: SONOFF

1. INTRODUCTION

The SONOFF WTS01 is a high-precision waterproof temperature sensor designed as an accessory for SONOFF TH Elite and TH Origin smart switches. It enables accurate temperature monitoring in various environments, including moist conditions, making it ideal for a wide range of applications.



Image: The SONOFF WTS01 temperature sensor, featuring its probe and RJ9 connector.

WTS01 Waterproof Temperature Sensor

TH Elite/Origin accessory



Image: The WTS01 sensor submerged in water, demonstrating its waterproof capability, with a connected TH Elite/Origin device displaying temperature readings.

2. KEY FEATURES

- **Wide Compatibility:** Specifically designed to work seamlessly with SONOFF TH Elite and TH Origin smart switches, providing accurate temperature data to your smart home system.
- **Broad Measuring Range:** Capable of measuring temperatures from -40°C to $+115^{\circ}\text{C}$, making it suitable for diverse applications, from cold storage to warm environments.
- **Waterproof and Durable:** The sensor features a stainless steel probe that is waterproof, corrosion-resistant, and rust-proof, allowing for reliable use in moist or submerged conditions.
- **Extended Cable Length:** Equipped with a 150cm (1.5 meter) cable, providing flexibility for placement and connection to devices located farther away.
- **High Accuracy:** Ensures precise temperature readings with an accuracy of up to $\pm 0.5^{\circ}\text{C}$ over the range of -

10°C to 85°C.

Longer Cable Lengths

The 150cm cable is enough to connect to the device farther from the switch.



Wider measuring range

Measuring range from -40°C to +115°C ensures a wider application range and easier installation.

Image: Visual representation of the 1.5m cable length and the wide measuring range of -40°C to +115°C for the WTS01 sensor.

High Accuracy

Ensure accurate temperature with up to $\pm 0.5^{\circ}\text{C}$ temperature accuracy over the range of -10°C to 85°C .



Waterproof & Super-durable

The stainless steel probe is waterproof, corrosion-resistant, and rust-resistant, allowing you to use it in moist environments.

Image: Diagrams illustrating the high accuracy ($\pm 0.5^{\circ}\text{C}$) and the waterproof, durable design of the WTS01 stainless steel probe.

3. SETUP AND INSTALLATION

The SONOFF WTS01 temperature sensor is designed for simple plug-and-play installation with compatible SONOFF devices.

3.1 Connecting the Sensor

1. Ensure your SONOFF TH Elite or TH Origin device is powered off before connecting the sensor.
2. Locate the RJ9 (4P4C) interface port on your TH Elite or TH Origin device.
3. Carefully insert the RJ9 connector of the WTS01 sensor into the corresponding port until it clicks into place.
4. Once connected, you can power on your TH Elite or TH Origin device. The sensor will be automatically detected.

3.2 Placement Considerations

Place the stainless steel probe in the environment where temperature monitoring is required. Thanks to its waterproof design, it can be used in humid or wet locations, or even submerged in water.

Smaller Converter Board

Easily fits into a waterproof case and more.



Power Availability

The waterproof temperature sensor is available for SONOFF TH Origin/Elite, used to detect temperature.

Image: The WTS01 sensor connected to a SONOFF TH Origin device, and a comparison showing the TH Origin and TH Elite devices.

4. OPERATION

Once connected to a compatible SONOFF TH Elite or TH Origin device, the WTS01 sensor will immediately begin detecting and transmitting temperature data. The temperature readings will be displayed on the screen of your TH device (if applicable) and accessible through the eWeLink app on your smartphone or tablet.

The TH Elite/Origin device, in conjunction with the WTS01 sensor, allows you to:

- View real-time temperature readings.
- Set up automated scenes and smart rules based on temperature thresholds (e.g., turn on a fan if temperature exceeds a certain value).

- Monitor temperature history and trends.

5. MAINTENANCE

The SONOFF WTS01 sensor is designed for durability and requires minimal maintenance.

- **Cleaning:** If the probe becomes dirty, gently wipe it with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials that could damage the stainless steel.
- **Inspection:** Periodically check the cable and connector for any signs of wear or damage. Ensure the connection to the TH device remains secure.
- **Storage:** When not in use, store the sensor in a clean, dry place away from extreme temperatures.

6. SPECIFICATIONS

Specification



Model	Cable length
WTS01	1.5m
Color	Product size
Black	50x6x6mm
Connector type	Accuracy over the range of
RJ9 (4P4C)	-10°C to 85°C
Working temperature	
-40~+115°C	

Image: A diagram summarizing the key specifications of the SONOFF WTS01 sensor.

Parameter	Value
Model	WTS01
Cable Length	1.5m
Color	Black
Connector Type	RJ9 (4P4C)
Working Temperature Range	-40°C ~ +115°C
Accuracy (over -10°C to 85°C)	±0.5°C
Product Size	50x6x6mm (probe dimensions)
Manufacturer	SONOFF
First Available Date	July 25, 2023



Image: The back of the SONOFF WTS01 packaging, showing detailed specifications and compliance information.

7. TROUBLESHOOTING

If you encounter issues with your SONOFF WTS01 sensor, consider the following:

- **No Temperature Reading:**

- Ensure the sensor is securely plugged into the RJ9 port of your TH Elite/Origin device.
- Verify that the TH Elite/Origin device is powered on and functioning correctly.
- Check if the eWeLink app is updated to the latest version.

- **Inaccurate Readings:**

- Ensure the sensor probe is not directly exposed to heat sources or extreme cold that might exceed its operating range.
- Clean the probe if there is any buildup that might affect its accuracy.
- Compare readings with another known accurate thermometer to confirm deviation.

- **Sensor Not Detected:**

- Unplug and re-plug the sensor.
- Restart your TH Elite/Origin device.
- Ensure your TH Elite/Origin device firmware is up to date.

If problems persist, please contact SONOFF customer support.

8. WARRANTY INFORMATION

The SONOFF WTS01 Temperature Sensor comes with a standard manufacturer's warranty. Please refer to the warranty card included with your product or visit the official SONOFF website for detailed warranty terms and conditions. Keep your purchase receipt as proof of purchase for warranty claims.

9. CUSTOMER SUPPORT

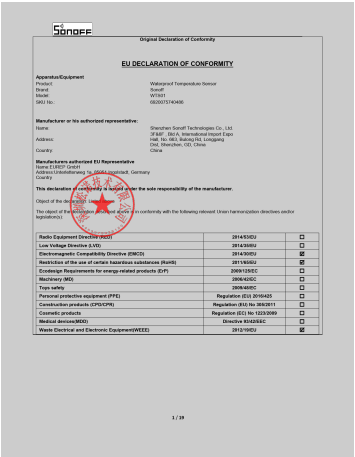
For technical assistance, product inquiries, or support, please contact SONOFF customer service:

- **Website:** sonoff.tech
- **Email:** support@itead.cc

When contacting support, please provide your product model (WTS01) and a detailed description of the issue.

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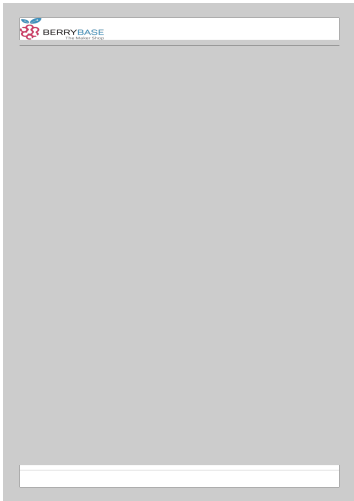
Documents - SONOFF – WTS01



[\[pdf\]](#) User Manual Declaration of Conformity

Ryan G H Yang EU Declaration of Conformity User Manual SONOFF WTS01 CE DoC v 1753255418 cdn shopify s files 1 0742 9963 8001 |||

Original Declaration of Conformity Apparatus/Equipment Product: Brand: Model: SKU No.: EU DECLARATION OF CONFORMITY Waterproof Temperature Sensor Sonoff **WTS01** 6920075740486 Manufacturer or his authorized representative: Name: Address: Country: Shenzhen Sonoff Technologies Co., Ltd. 3F 6F , Bld A... lang:en score:41 filesize: 399.21 K page_count: 19 document date: 2024-05-22



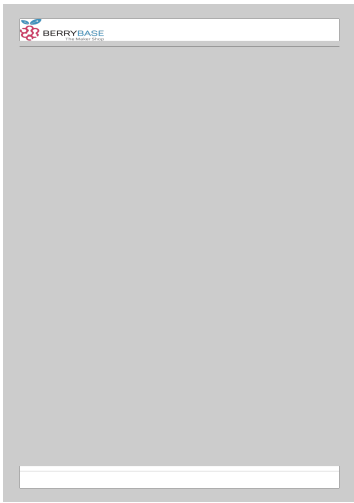
[pdf] Installation Guide Datasheet

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Datasheet for Sonoff waterproof temperature sensor **WTS01** for THR316/320, RJ9 4P4C, 1.50m Page 1 Datasheet for Sonoff waterproof temperature sensor **WTS01** for THR316/320, RJ9 4P4C, 1.50m Page 2 Datasheet for Sonoff waterproof temperature sensor **WTS01** for THR316/320, RJ9 4P4C, 1.50m Sonoff waterpr...

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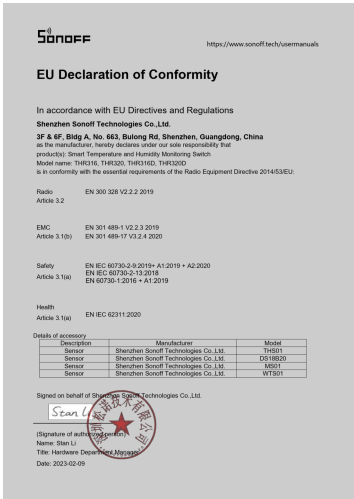
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[pdf] Decleration of Conformity Accessories

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https://www.sonoff.tech/usermanuals EU Declaration of Conformity In accordance with EU Directives a ... ogies Co.,Ltd. Signed on behalf of Shenzhen Sonoff Technologies Co.,Ltd. Model THS01 DS18B20 MS01 **WTS01** Signature of authorized person Name: Stan Li Title: Hardware Department Manager Date: 2023-...

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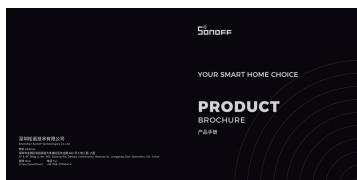
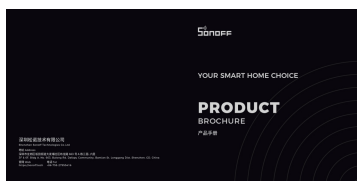
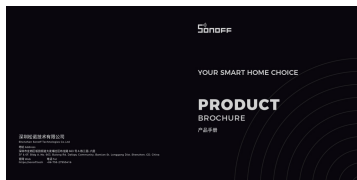
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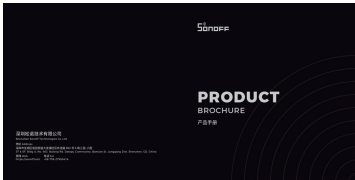
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ACCESSORIES Accessories ACCESSORIES **WTS01** Waterproof Temperature
Sensor Compatible Products TH Origin TH Elite Interface/Connector...

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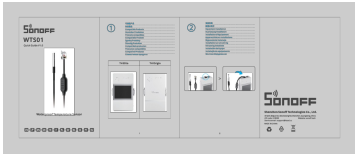


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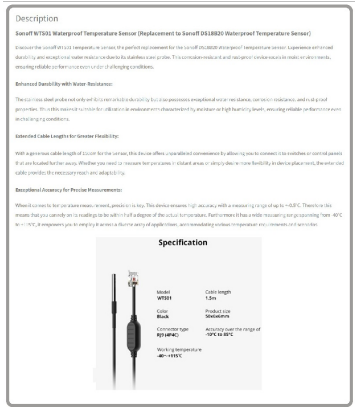
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