

SONOFF THS01

SONOFF THS01 High Accuracy Temperature and Humidity Sensor User Manual

Model: THS01 | Brand: SONOFF

1. INTRODUCTION

The SONOFF THS01 is a high-accuracy temperature and humidity sensor designed to work seamlessly with SONOFF TH Elite and TH Origin smart switches. It provides precise environmental data, enabling intelligent control and monitoring of your home or specific environments.



Figure 1.1: SONOFF THS01 Temperature and Humidity Sensor with RJ9 4P4C connector.

Key Features:

- Wider Monitoring Range: Temperature measurement from -40°C to $+85^{\circ}\text{C}$ and humidity measurement from 0 to 100% RH.
- RJ9 4P4C Connector: Upgraded connector for stable and reliable hot-plugging.
- Easy to Use: Simple connection to TH Elite/TH Origin devices.
- Extendable: Can be used with RL560 sensor extension cable for longer distances (up to 60M for THS01/DS18B20, 10M for MS01).

2. PACKAGE CONTENTS

The package for the SONOFF THS01 sensor typically includes:

- 1 x SONOFF THS01 Temperature and Humidity Sensor
- User Manual (this document)

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THS01 Temperature and Humidity Sensor

Figure 2.1: Front view of the SONOFF THS01 product packaging.

Temperature and Humidity Sensor

Model: THS01

Working temperature: -40°C~+85°C

Working humidity: 0~100%RH

Connector type: RJ9 (4P4C)

Color: Black

Cable length: 0.5m

Product size: 60x30x18.5mm

Manufacturer: Shenzhen Sonoff Technologies Co., Ltd.

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MADE IN CHINA

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3. INSTALLATION GUIDE

The THS01 sensor is designed for easy plug-and-play installation with compatible SONOFF TH Elite/Origin devices. Follow these steps to connect your sensor:

1. Ensure your SONOFF TH Elite/Origin device is powered off before connecting the sensor.
2. Locate the RJ9 4P4C sensor interface on your TH Elite/Origin device.
3. Insert the RJ9 4P4C connector of the THS01 sensor firmly into the sensor interface. The RJ9 4P4C connector supports hot-plugging, but it is recommended to power off the main device for safety during initial connection.
4. Once connected, power on your TH Elite/Origin device. The sensor will be automatically detected.
5. For extended reach, you can use the SONOFF RL560 sensor extension cable (sold separately).



Figure 3.1: The THS01 sensor connected to a SONOFF TH Elite/Origin device, ready for operation.

Temperature and Humidity Sensor

TH Elite/Origin accessory.



Figure 3.2: The THS01 sensor actively monitoring temperature and humidity, displayed on the TH Elite/Origin's LCD screen.

4. OPERATING INSTRUCTIONS

Once connected to a SONOFF TH Elite/Origin device, the THS01 sensor enables various smart monitoring and control functionalities through the eWeLink App and the device's LCD display.

4.1 Real-time Monitoring

The TH Elite/Origin device, with the THS01 sensor connected, provides real-time temperature and humidity readings on its integrated LCD screen. These readings are refreshed every 5 seconds. You can also view real-time data and historical trends via the eWeLink App on your smartphone or tablet.

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Video 4.1: Demonstration of SONOFF TH Elite's features, including real-time temperature and humidity monitoring with compatible sensors like THS01, and app integration.

4.2 Local Auto Mode

The TH Elite/Origin supports a "Local Auto Mode" which allows the device to automatically turn on/off connected appliances

based on predefined temperature and humidity thresholds. This functionality operates even if your Wi-Fi connection is temporarily unavailable.

- Set specific temperature or humidity ranges for automatic control.
- Define effective time periods for these automation rules.

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Video 4.2: Overview of SONOFF TH Elite's capabilities, including sensor compatibility (like THS01), local auto mode setup, and smart scene creation for automated control.

4.3 Voice Control

When paired with a SONOFF TH Elite/Origin device, the THS01 sensor's data can be integrated with popular voice assistants such as Amazon Alexa and Google Assistant. This allows you to inquire about current temperature and humidity or trigger actions using voice commands.



Figure 4.3: Illustrates voice control capabilities with Amazon Alexa and Google Assistant for monitoring and controlling devices based on sensor data.

5. SPECIFICATIONS

Detailed technical specifications for the SONOFF THS01 Temperature and Humidity Sensor:

Attribute	Value
Model	THS01
Color	Black

Temperature Measurement Range	-40°C to +85°C
Humidity Measurement Range	0 to 100% RH
Connector Type	RJ9 4P4C
Cable Length	0.5 meters (approx. 1.64 ft)
Maximum Extendable Length (with RL560)	60 meters (for THS01/DS18B20)
Product Dimensions	1.62"W x 3.54"H (approx. 4.1cm W x 9.0cm H)
Item Weight	0.02 Kilograms
Battery Requirement	No batteries needed (powered by host device)

Specifications



Model: THS01

Color: Black

Cable length: 50cm

Connector type: RJ9 4P4C

Working temperature: -40°C~+85°C

Working Humidity : 0~100%RH

Figure 5.1: Visual representation of THS01 specifications, including model, color, cable length, connector type, and working ranges.



Figure 5.2: Overview of various SONOFF sensors compatible with TH Elite/Origin, including THS01, DS18B20 (waterproof temperature), MS01 (soil moisture), and RL560 (extension cable).

6. CARE AND MAINTENANCE

To ensure the longevity and accurate performance of your SONOFF THS01 sensor, please follow these care and maintenance guidelines:

- **Cleaning:** Wipe the sensor body with a soft, dry cloth. Do not use abrasive cleaners, solvents, or harsh chemicals.
- **Environment:** Avoid exposing the sensor to extreme physical shock, vibrations, or direct water immersion (unless specifically designed for it, which THS01 is not).
- **Storage:** When not in use for extended periods, store the sensor in a cool, dry place away from direct sunlight.
- **Handling:** Handle the RJ9 4P4C connector with care to prevent bending or damaging the pins.

7. TROUBLESHOOTING

If you encounter issues with your SONOFF THS01 sensor, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
No temperature/humidity reading on display or App.	Sensor not properly connected; Host device (TH Elite/Origin) not powered on; Sensor malfunction.	Ensure the RJ9 4P4C connector is fully inserted. Verify the TH Elite/Origin device is powered. Try reconnecting the sensor. If issue persists, contact support.

Inaccurate readings.	Sensor placed in an unsuitable environment (e.g., direct sunlight, near heat source/vent); Sensor dirty.	Relocate the sensor to a more representative area. Clean the sensor gently with a dry cloth. Allow time for readings to stabilize.
Sensor not detected after connecting.	Firmware of TH Elite/Origin is outdated; Faulty sensor or port.	Check for firmware updates for your TH Elite/Origin device in the eWeLink App. Try connecting the sensor to a different compatible device if available, or try a different sensor if possible.

8. WARRANTY AND SUPPORT




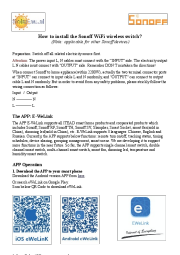
SONOFF products are manufactured to high-quality standards and are warranted against manufacturing defects. For specific warranty terms and conditions, please refer to the warranty information provided with your main SONOFF TH Elite/Origin device or visit the official SONOFF website.

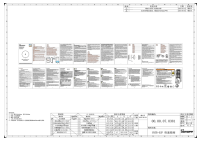
For technical support, troubleshooting assistance, or product inquiries, please contact SONOFF customer service through their official channels:

- **Website:** sonoff.tech
- **Email:** support@itead.cc
- **SONOFF Store on Amazon:** [Visit the SONOFF Store](#)

Please have your product model number (THS01) and purchase information ready when contacting support.

Related Documents - THS01

	<p>SONOFF THS01 Temperature and Humidity Sensor - Quick Start Guide</p> <p>Get started with the SONOFF THS01 temperature and humidity sensor. This quick guide covers compatible devices and simple installation steps for your smart home setup.</p>
	<p>SONOFF Si7021 Quick Guide: Temp & Hum Sensor and WiFi Smart Switches</p> <p>Quick start guide for the SONOFF Si7021 temperature and humidity sensor, detailing compatible products, installation, and specifications for SONOFF TH10 and TH16 WiFi smart switches.</p>
	<p>SONOFF RL560 Sensor Extension Cable - Quick Guide and Installation</p> <p>Learn how to install and use the SONOFF RL560 Sensor Extension Cable with compatible SONOFF sensors like THS01, MS01, and WTS01. This guide provides installation steps and product compatibility information.</p>
	<p>Sonoff WiFi Wireless Switch Installation and E-WeLink App Guide</p> <p>Comprehensive guide to installing the Sonoff WiFi wireless switch. Learn how to set up the E-WeLink app, pair your device, manage smart home functions, and utilize features like groups and scenes.</p>



[SONOFF SNZB-02P Zigbee](#)

SONOFF SNZB-02P Zigbee



[SONOFF SNZB-02 Czujnik Temperatury i Wilgoci - Instrukcja Obsługi](#)

Instrukcja obsługi dla inteligentnego czujnika temperatury i wilgoci SONOFF SNZB-02. Dowiedz się, jak łatwo zainstalować, sparować przez ZigBee z mostkiem SONOFF i skonfigurować urządzenie za pomocą aplikacji eWeLink do monitorowania warunków domowych.