

SONOFF SNZB-02D

SONOFF SNZB-02D LCD Zigbee Temperature Humidity Sensor User Manual

Model: SNZB-02D

1. PRODUCT OVERVIEW

The SONOFF SNZB-02D is an indoor Zigbee temperature and humidity sensor designed for real-time monitoring and integration into smart home automation systems. It features a large LCD display for clear readings and can be remotely monitored via a compatible Zigbee hub and mobile application. This sensor provides accurate environmental data to help maintain comfortable living conditions and enable intelligent control of other smart devices.



Image 1.1: SONOFF SNZB-02D LCD Zigbee Temperature Humidity Sensor with its retail packaging.



Image 1.2: Overview of the SNZB-02D sensor, emphasizing its accurate Swiss-made sensor, app monitoring, C/F switch, large digits display, 400ft coverage, and low battery notification.

2. SAFETY INFORMATION

WARNING: INGESTION HAZARD

This product contains a button cell or coin battery. A swallowed button cell or coin battery can cause internal chemical burns in as little as 2 hours and can lead to death or serious injury. Keep new and used batteries out of reach of children. If you suspect a battery has been swallowed or placed inside any part of the body, seek immediate medical attention.



Image 2.1: Safety warning from the product packaging regarding button cell battery ingestion.

3. WHAT'S IN THE BOX

- SNZB-02D Sensor x 1
- Base x 1
- Quick Guide x 1



Image 3.1: Front view of the SNZB-02D product box.

4. SETUP

4.1 Battery Installation

The SNZB-02D requires 1 Lithium Metal CR2450 battery. Ensure correct polarity when inserting the battery.

4.2 Pairing with Zigbee Hub

The SNZB-02D sensor requires a Zigbee hub (e.g., SONOFF Zigbee Bridge, Alexa with Built-in Zigbee Hub, NSPanel Pro) to function and connect to the eWeLink APP for remote monitoring and automation.

1. Ensure your Zigbee hub is powered on and connected to your network.
2. Long press the device button on the SNZB-02D for 5 seconds until the Zigbee Signal icon flashes on the LCD screen. This indicates the sensor is in pairing mode.
3. Open the eWeLink APP, navigate to your Zigbee Bridge, and tap "Add" to search for new devices.
4. Once detected, the device will be added to your hub and appear in the app.

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Video 4.1: Demonstrates the pairing process of the SNZB-02D sensor with a Zigbee Bridge via the eWeLink app, showing how to put the device into pairing mode and add it to the system.

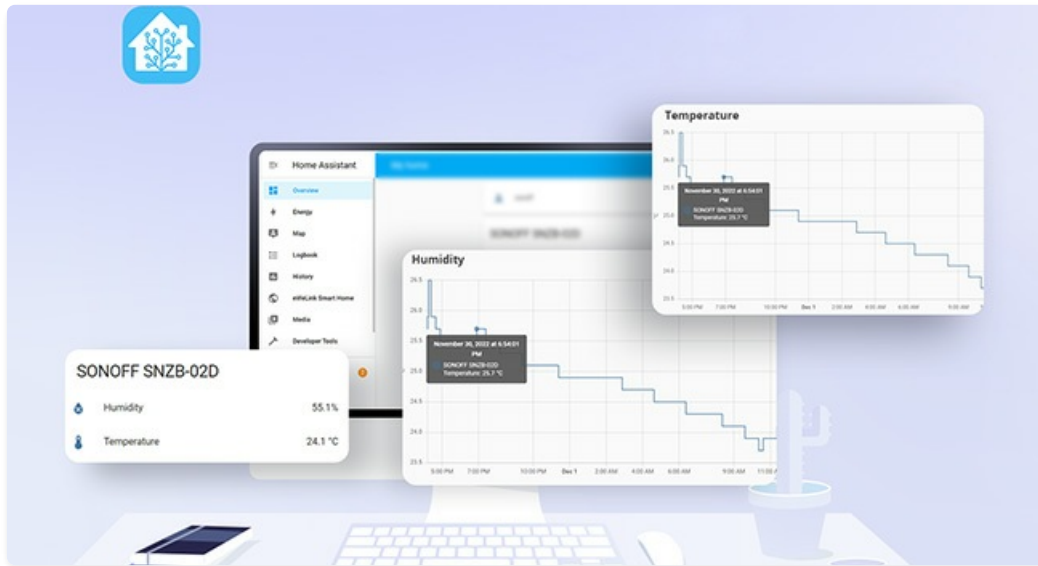


Image 4.2: Diagram illustrating the compatibility of the SNZB-02D with different Zigbee hubs, including Alexa with Built-in Zigbee Hub, SONOFF ZBDongle-P/E, NSPanel Pro, and SONOFF Zigbee Bridge/Pro.

4.3 Installation Methods

The SNZB-02D offers flexible installation options to suit various environments:

- **Stand:** Use the integrated kickstand to place the sensor on any flat surface, such as a desk or shelf.
- **Magnetic Back:** The sensor has a magnetic back, allowing it to be easily attached to metallic surfaces like refrigerators.
- **3M Adhesive:** For non-metallic surfaces, peel off the protective film from the included 3M adhesive and firmly attach the sensor to a clean, dry wall or other desired location.

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Video 4.3: Demonstrates the three installation methods for the SNZB-02D: using the built-in stand, magnetic attachment, and 3M adhesive for wall mounting.



Stand



Magnetic back



3M adhesive

Image 4.4: Visual representation of the stand, magnetic back, and 3M adhesive installation options for the SNZB-02D.

5. OPERATING INSTRUCTIONS

5.1 Reading the Display

The large LCD screen dynamically displays real-time temperature and humidity values. Intuitive icons indicate room conditions and battery status.

Easy to Read



Large and Clear Display



5s Fast Refresh



°C and °F Switch

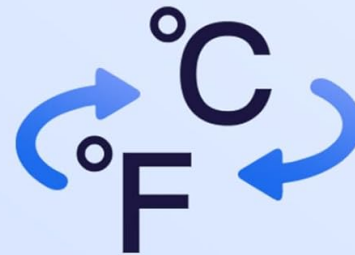


Image 5.1: The SNZB-02D's large LCD display, showing clear temperature and humidity readings with a 5-second refresh rate and C/F switch capability.

5.2 High Accuracy Readings

The sensor incorporates a Swiss-made smart hygrometer sensor, providing high accuracy readings:

- Temperature Accuracy: $\pm 0.2^{\circ}\text{C}$ / $\pm 0.4^{\circ}\text{F}$
- Humidity Accuracy: $\pm 2\%\text{RH}$

Readings are refreshed every 5 seconds for up-to-date information.

High Accuracy

Built-in Swiss-made sensor ensures accurate measurement of room temperature and humidity.



Image 5.2: Visual representation of the SNZB-02D's high accuracy in temperature ($\pm 0.2^{\circ}\text{C}$) and humidity ($\pm 2\% \text{RH}$) measurements.

5.3 App Monitoring and Notifications

Through the eWeLink APP, you can remotely monitor temperature and humidity. The app provides instant alerts if the readings exceed your preset comfort levels, allowing for proactive adjustments.

Alert via APP

You'll receive instant alerts from your phone when the temperature or humidity exceeds your set comfort level.



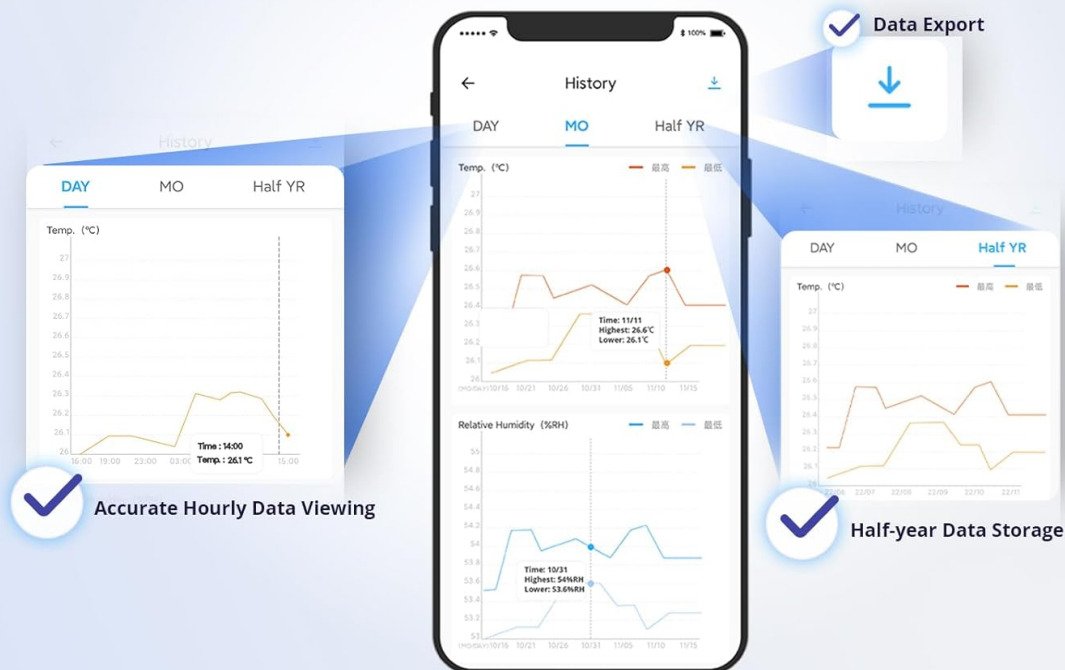
Image 5.3: An example of an app notification from eWeLink when the temperature or humidity exceeds a user-defined comfort level.

5.4 Data Storage and Export

The eWeLink cloud offers up to half-year free storage of your sensor data. You can view hourly data, check highest and lowest values for any hour or day, and export data as files for further analysis.

Data Storage & Export

Up to half-year free cloud storage, and most accurate enough to view hourly data. you can also check the highest and lowest values at any hour or day and data can be exported as files.



*This feature requires SONOFF gateway and eWeLink APP.

Image 5.4: Screenshots from the eWeLink app demonstrating accurate hourly data viewing, half-year data storage, and data export capabilities.

5.5 Scene Linkage and Home Automation

Integrate the SNZB-02D with other smart devices through the eWeLink app to create automated scenes. For example, you can set a scene to turn on a fan or humidifier when the temperature or humidity reaches a certain threshold.

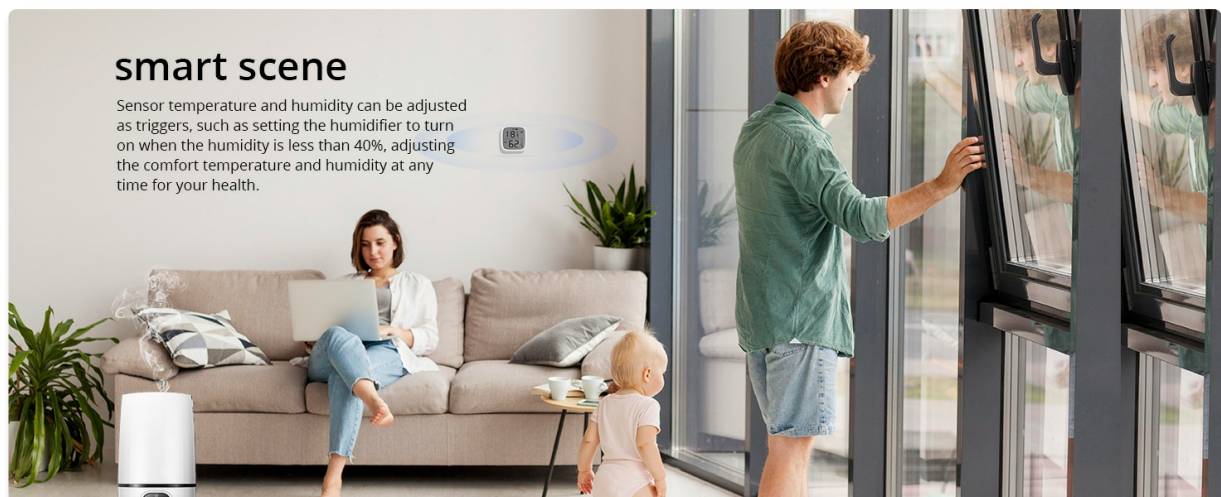


Image 5.5: An example of setting up a smart scene where the SNZB-02D sensor triggers a SONOFF S31 smart plug based on temperature conditions.

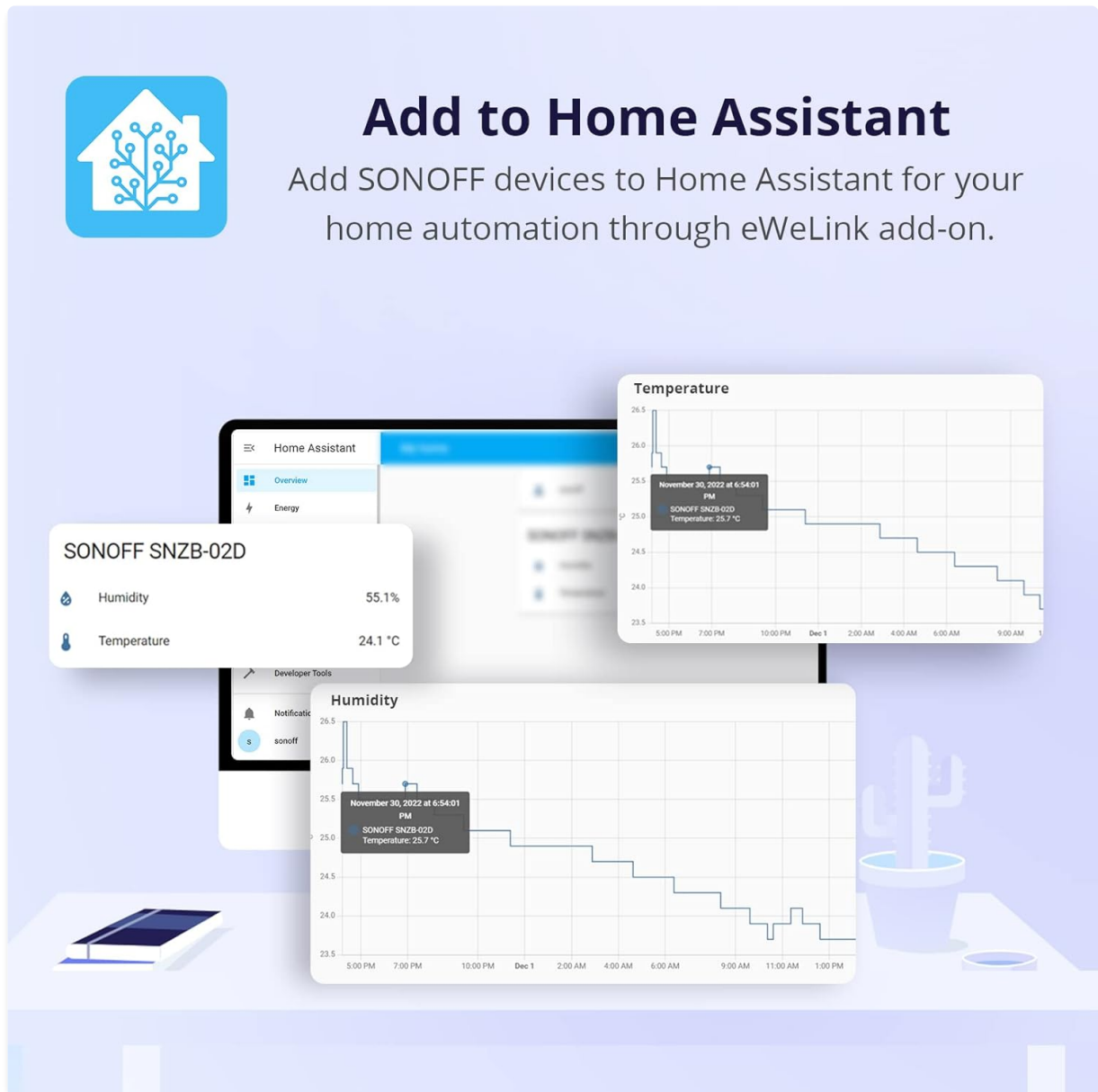


Image 5.6: The SNZB-02D can be added to Home Assistant for advanced home automation through the eWeLink add-on, displaying temperature and humidity graphs.

6. MAINTENANCE

6.1 Cleaning

Wipe the sensor with a soft, dry cloth. Do not use liquid cleaners or aerosols.

6.2 Battery Replacement

When the battery icon on the LCD display indicates low power, replace the CR2450 lithium metal battery. Ensure proper disposal of used batteries according to local regulations.

7. TROUBLESHOOTING

- **Device not pairing:** Ensure the sensor is within range of the Zigbee hub. Long press the device button for 5 seconds until the Zigbee signal icon flashes to re-enter pairing mode. Check if your Zigbee hub is properly connected and in pairing mode.

- **Inaccurate readings:** Ensure the sensor is placed in a location free from direct sunlight, drafts, or heat sources that could affect readings. Allow some time for the sensor to stabilize after initial setup or relocation.
- **Display blank or flickering:** Check the battery level. If the battery is low, replace it. Ensure the battery is securely connected.
- **No data in app:** Verify that the sensor is successfully paired with the Zigbee hub and the hub has an active internet connection. Check the eWeLink app for any error messages or connectivity issues.

8. SPECIFICATIONS

| Feature | Specification |
|---------------------|------------------------------------|
| Model | SNZB-02D |
| Wireless Connection | Zigbee 3.0 |
| Color | White |
| Casing Materials | PC+LCD |
| Dimensions | 59.5x59.5x18.5mm (2.34"W x 0.72"H) |
| Battery Model | CR2450 |
| Rating | 3V |
| Working Temperature | -9.9°C to 60°C |
| Working Humidity | 5% to 95% RH (non-condensing) |
| Item Weight | 60 Grams |



Image 8.1: Product specifications listed on the side of the SNZB-02D packaging.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official SONOFF website or contact their customer service. User manuals in PDF format are also available for download from the product's Amazon listing or the manufacturer's support page.

- User Manual (PDF): [Download](#)
- User Guide (PDF): [Download](#)

