SONOFF SNZB-02P

SONOFF SNZB-02P Zigbee Temperature and Humidity Sensor User Manual

Model: SNZB-02P

1. PRODUCT OVERVIEW

The SONOFF SNZB-02P is a compact Zigbee-enabled temperature and humidity sensor designed for indoor environmental monitoring. It provides accurate real-time data, enabling smart home automation and comfort alerts. This sensor requires a Zigbee 3.0 compatible hub for operation.

Image: The SONOFF SNZB-02P sensor, a small white disc, shown alongside its orange product packaging. The packaging highlights its function as a Zigbee Temperature and Humidity Sensor.

2. WHAT'S IN THE BOX

- 1 x SONOFF SNZB-02P Zigbee Temperature and Humidity Sensor
- 1 x CR2477 Lithium Metal Battery (pre-installed or included)
- 1 x User Manual (this document)

3. SPECIFICATIONS

Feature	Detail
Model Number	SNZB-02P
Product Dimensions	1.77 x 1.77 x 0.67 inches

Weight	1.41 ounces
Material	Polycarbonate
Battery Type	CR2477 Lithium Metal (included)
Temperature Accuracy	±0.2°C / ±0.4°F
Humidity Accuracy	±2%RH
Wireless Protocol	Zigbee 3.0

Image: A graphic illustrating the high accuracy of the sensor, displaying ±0.2°C temperature accuracy and ±2%RH humidity accuracy, along with chip details (EFR32 MG22C22, SHT40).

4. SETUP AND INSTALLATION

4.1 Battery Installation

The SNZB-02P sensor is powered by a CR2477 Lithium Metal battery, which is typically included or pre-installed. To

access the battery compartment:

1. Gently twist the back cover of the sensor counter-clockwise to open it.
2. Insert or replace the CR2477 battery, ensuring the positive (+) side faces upwards.
3. Align the cover and twist clockwise to secure it.

Extended Battery Life

The battery life has been increased to more than four years. No longer have to worry about running out of power.

4 YEARS

*The battery life data is a theoretical value, obtained from SONOFF's internal laboratory under a specific test environment. Actual use may vary slightly due to product differences, firmware software versions, operating conditions, and environmental factors. Please refer to the actual use.

Image: The SONOFF SNZB-02P sensor with its back cover detached, revealing the internal battery compartment. A CR2477 battery is shown next to the sensor, emphasizing its 4-year battery life.

4.2 Pairing with a Zigbee Hub

The SNZB-02P requires a Zigbee 3.0 compatible hub to function. This includes hubs like SONOFF iHost, NSPanel Pro, ZB Bridge Pro, ZBDongle-E, Echo 4th Gen, and SmartThings Hub V3.

1. Ensure your Zigbee hub is powered on and in pairing mode. Refer to your hub's specific instructions for entering pairing mode.
2. On the SNZB-02P sensor, press and hold the reset button (usually a small pinhole button) for approximately 5 seconds until the LED indicator flashes rapidly. This indicates it's in pairing mode.
3. Once successfully paired, the LED indicator will stop flashing, and the sensor will appear in your Zigbee hub's connected devices list.

4. You can then integrate the sensor with compatible smart home platforms such as Alexa or Google Home through your Zigbee hub's application.

Important Note: The SNZB-02P sensor cannot connect directly to Wi-Fi and must be used with a Zigbee hub.

5. OPERATION

5.1 Real-time Monitoring

Once paired, the sensor will begin transmitting temperature and humidity data to your Zigbee hub. Data measurements are updated approximately every 5 seconds, providing near real-time environmental readings.
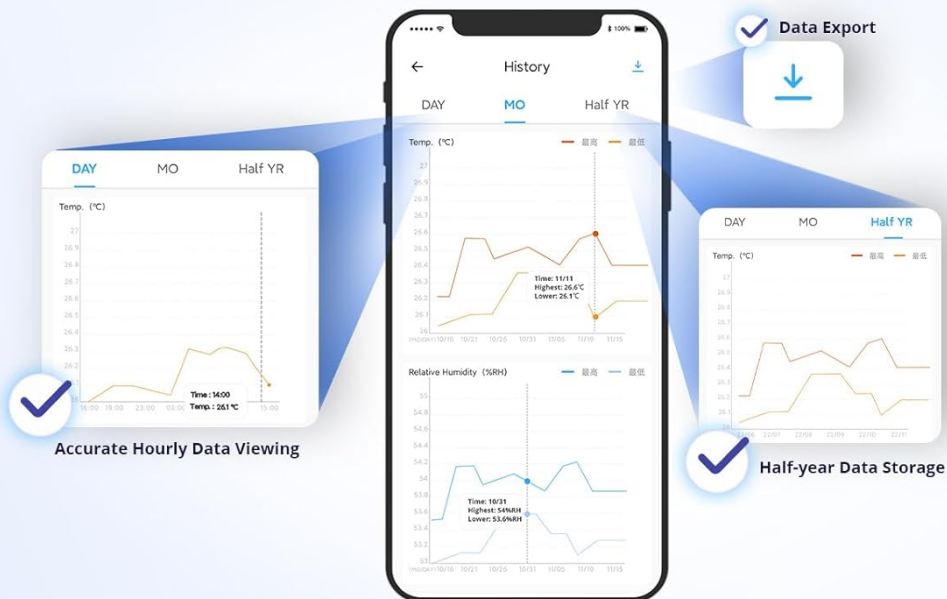

Image: A smartphone screen showing the eWeLink app interface with historical temperature and humidity data graphs, indicating accurate hourly data viewing and half-year data storage capabilities.

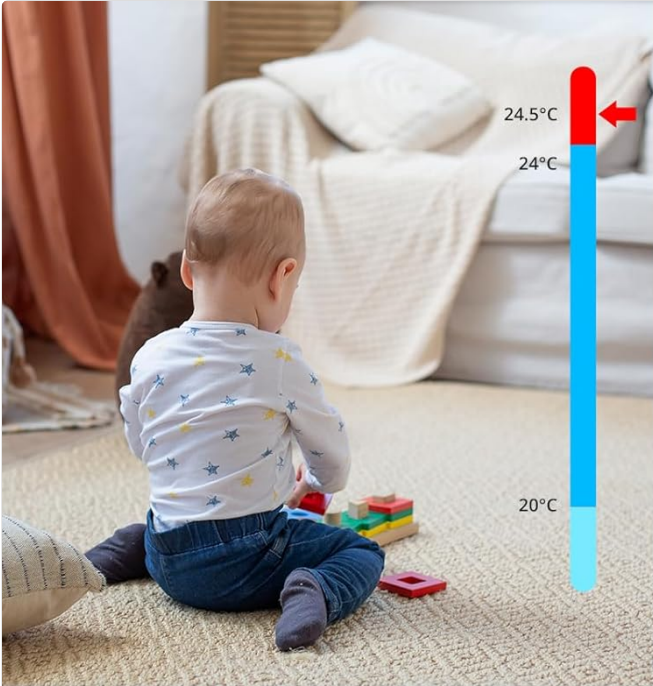### 5.2 Comfort Alerts and Smart Scenes

Utilize your Zigbee hub's application to set up custom alerts and smart scenes based on the sensor's readings:

- **Comfort Alerts:** Receive immediate notifications on your phone if the temperature or humidity exceeds
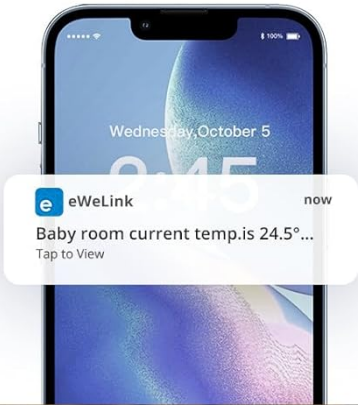
predefined comfort ranges (e.g., too hot, too cold, too humid, too dry).

- **Smart Scenes:** Automate other smart devices. For example, you can configure a scene to turn on a fan if the temperature rises above 28°C or activate a humidifier if humidity drops below 45%RH.

Maintain Room Comfort

When the room temperature or humidity exceeds your set comfort range, you will receive immediate notifications on your phone, helping you maintain room comfort and ensuring life quality.

Wednesday, October 5

eWeLink now
Baby room current temp.is 24.5°...
Tap to View

Create Smart Scenes, Embrace Comfortable Lifestyle

Set up Smart scenes to control fans and humidifiers based on different temperature or humidity levels at night, creating a comfortable sleep environment for you.

>28°C ➡ Fan on

<45%RH ➡ Humidifier on

Image: A visual representation of how the sensor helps maintain room comfort by sending alerts when temperature or humidity exceeds set ranges, and how it can create smart scenes to control devices like fans or humidifiers based on environmental conditions.

5.3 Data Storage and Export

The sensor's data is stored in the cloud (up to half a year of free storage). You can access historical temperature and humidity variations for daily, monthly, or six-month periods through your connected application. Data can also be exported for further analysis.

6. MAINTENANCE

6.1 Battery Life and Replacement

The SNZB-02P boasts an extended battery life of up to 4 years under typical usage conditions. When the battery level is low, you may receive a notification through your smart home application. Replace the CR2477 battery as

described in Section 4.1.

6.2 Cleaning

To ensure accurate readings, keep the sensor clean. Wipe the exterior with a soft, dry cloth. Avoid using abrasive cleaners or submerging the device in water.

7. TROUBLESHOOTING

- **Sensor Not Connecting/Pairing:**
  - Ensure your Zigbee hub is powered on and in pairing mode.
  - Verify the sensor's battery is correctly installed and has sufficient charge.
  - Make sure the sensor is within range of your Zigbee hub.
  - Try resetting the sensor by holding the reset button for 5 seconds and re-attempting the pairing process.
  - If using Home Assistant, some users have reported success by deleting and re-adding the device if data refresh issues occur after initial pairing.

- **Inaccurate Readings:**
  - Ensure the sensor is not placed near heat sources (e.g., direct sunlight, heating vents) or cold drafts, which can affect readings.
  - Avoid placing the sensor in areas with high humidity fluctuations (e.g., directly above a humidifier outlet).
  - Clean the sensor regularly to prevent dust buildup from affecting the sensors.

- **Battery Draining Quickly:**
  - Ensure you are using a genuine CR2477 battery.
  - Extreme temperatures can affect battery performance.

8. WARRANTY AND SUPPORT

8.1 Warranty Information

For detailed warranty information regarding your SONOFF SNZB-02P sensor, please refer to the warranty card included with your product or visit the official SONOFF website. Warranty terms and conditions may vary by region and retailer.

8.2 Customer Support

If you encounter any issues or have questions not covered in this manual, please contact SONOFF customer support through their official website or the retailer from whom you purchased the product.
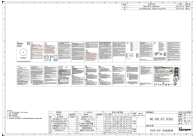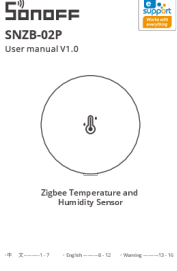You can also visit the official SONOFF store for more information and products:SONOFF Official Store

Related Documents - SNZB-02P

SONOFF SNZB-02P Zigbee Temperature and Humidity Sensor Quick Start Guide
Quick start guide for the SONOFF SNZB-02P Zigbee Temperature and Humidity Sensor, providing setup, pairing, and usage instructions. Includes specifications and compliance information.

	SONOFF SNZB-02P Zigbee SONOFF SNZB-02P Zigbee
	SONOFF SNZB-02P Zigbee Temperature and Humidity Sensor User Manual User manual for the SONOFF SNZB-02P Zigbee Temperature and Humidity Sensor. Learn about its features, specifications, installation, pairing, battery replacement, and compliance information.
	SONOFF SNZB-02P Zigbee Temperature and Humidity Sensor User Manual User manual for the SONOFF SNZB-02P Zigbee Temperature and Humidity Sensor, detailing its features, installation, setup, specifications, safety warnings, and regulatory compliance.
	SONOFF SNZB-02P Zigbee Temperature and Humidity Sensor User Manual User manual for the SONOFF SNZB-02P, a low-power Zigbee temperature and humidity sensor. Learn about its features, installation, setup, and safety information.
	SONOFF SNZB-02P Zigbee Temperature and Humidity Sensor User Manual User manual for the SONOFF SNZB-02P Zigbee Temperature and Humidity Sensor, detailing its features, installation, operation, and compliance information. This document provides instructions for setup, pairing, and usage.