## SONOFF SAWF-08P

# SONOFF AirGuard CO2 Smart Indoor Air Quality Monitor

Model: SAWF-08P | Brand: SONOFF

## 1. INTRODUCTION

The SONOFF AirGuard CO2 Smart Indoor Air Quality Monitor (Model: SAWF-08P) is designed to provide real-time monitoring of carbon dioxide ($CO_2$) levels, temperature, and humidity in your indoor environment. This device supports Matter compatibility, allowing seamless integration with various smart home platforms. It features a high-accuracy NDIR sensor for reliable readings and a triple-alert system to notify you of significant changes in air quality. This manual provides detailed instructions for setup, operation, and maintenance of your AirGuard CO2 monitor.

Image: The SONOFF AirGuard CO2 monitor showing its display with CO2, temperature, and humidity readings.

## 2. WHAT'S IN THE BOX

Upon opening the package, ensure all the following items are present:

- SONOFF AirGuard CO2 Monitor (SAWF-08P)
- USB-C Cable
- User Manual (Quick Start Guide)

*Note: A USB-A power adapter is required but not included in the package.*

# Feature Overview

| | eWeLink | Alexa | Google Home | Apple Home | Home Assistant | SmartThings |
|---|---|---|---|---|---|---|
| **CO₂ Concentration Value** | ✓ | ✗ | ✓ | ✓ | ✓ | ✓ |
| **Temperature Value** | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ |
| **Humidity Value** | ✓ | ✗ | ✓ | ✓* | ✓ | ✓ |
| **Voice Control** | ✗ | ✓ | ✓ | ✓ | ✗ | ✓ |

*Note: To view humidity readings in the Apple Home app, please upgrade your iPhone to iOS 26 or later.

Image: The SONOFF AirGuard CO2 monitor, USB-C cable, and user manual laid out from the box.

## Unboxing Video

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Video: A detailed unboxing of the SONOFF AirGuard CO2 monitor, showing all included components and initial handling.

## 3. PRODUCT OVERVIEW

## Key Features

- **Matter Compatibility:** Seamlessly integrates with smart home platforms like Apple Home, Amazon Alexa, Google Home, SmartThings, and Home Assistant.
- **High Accuracy & Fast Response:** Equipped with a built-in NDIR sensor, providing ±(50ppm + 5%) accuracy for CO2 (400–5000ppm) with data updates every 5 seconds.
- **All-in-One Air Quality Display:** Monitors and displays CO2, temperature, and humidity simultaneously on a 3.73-inch screen.

- **Triple-Alert System:** Notifies users via sound alarm, multi-color LED indicator, and app alerts when CO2, temperature, or humidity thresholds are exceeded.
- **Year-Long Data Tracking & Export:** Access up to 12 months of historical data with graphical charts in the app, allowing for deeper analysis and informed decisions.
- **Voice Control:** Check CO2 levels using simple voice commands through Siri or Google Assistant.

Image: Overview of the monitor's features including Matter compatibility, 3-in-1 monitoring, data logging, and alert systems.

Image: Internal view of the monitor emphasizing the NDIR sensor for high accuracy and fast response.

Image: The monitor's 3.73-inch display showing real-time CO2, temperature, and humidity readings.

Image: Visual representation of the three customizable alert methods: sound, LED indicator, and app notifications.

Image: A table summarizing the feature compatibility across different smart home platforms.

## 4. SETUP

### 4.1 Powering On

1. Connect the provided USB-C cable to the port on the back of the AirGuard CO2 monitor.
2. Plug the other end of the USB-C cable into a compatible USB-A power adapter (not included).
3. The device will power on automatically and begin displaying readings.

### 4.2 App Pairing and Matter Integration

To integrate your AirGuard CO2 monitor with your smart home system, follow these steps:

1. Ensure your smartphone is connected to a 2.4GHz Wi-Fi network.
2. Download and open the eWeLink app (or your preferred Matter-compatible smart home app like Apple Home, Google Home, Alexa, or SmartThings).
3. On the AirGuard CO2 monitor, long-press the Wi-Fi button (labeled with a Wi-Fi icon) until the icon starts flashing, indicating pairing mode.
4. In your smart home app, select the option to add a new device. You may need to scan the QR code located on the back of the AirGuard CO2 monitor.
5. Follow the on-screen prompts in the app to complete the pairing process and connect the device to your Wi-Fi network.

### How-to Video for Setup

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Video: A step-by-step guide on how to set up and pair the SONOFF AirGuard CO2 monitor with your smart home system.

## 5. OPERATING INSTRUCTIONS

## 5.1 Reading Values

The large display on the front of the AirGuard CO2 monitor shows the current CO2 concentration in parts per million (ppm), temperature in Celsius or Fahrenheit, and relative humidity percentage. The multi-color LED indicator on the top provides a quick visual cue of the air quality status (e.g., green for good, yellow for moderate, red for poor).

## 5.2 Menu Mode Operation (Local Control)

If you prefer not to use the app, or for quick adjustments, you can operate the device directly using the buttons on the top:

- **Entering Menu Mode:** Short-press the Setting button (middle button) until the "temperature unit" starts flashing. This indicates you have entered Menu Mode.
- **Switching Editable Parameters:** While in Menu Mode, short-press the Setting button to cycle through the available parameters for adjustment. The currently selected parameter will flash.
- **Switching Temperature Unit:** When the temperature unit is flashing, short-press the "+" or "-" buttons to switch between Celsius (°C) and Fahrenheit (°F).
- **Temperature Calibration:** When the temperature value is flashing, short-press the "+" or "-" buttons to manually calibrate the temperature.
- **Humidity Calibration:** When the humidity value is flashing, short-press the "+" or "-" buttons to manually calibrate the humidity.
- **Exiting Menu Mode:** If there is no button operation for 3 seconds, the device will automatically save the current settings and exit Menu Mode. Alternatively, you can short-press the Setting button again after cycling through all available parameters to exit.

## 5.3 Alarm Setting

The AirGuard CO2 monitor features an audible buzzer and an indicator light for alerts:

- **Buzzer Switch:** When the buzzer is off, short-press the buzzer button (rightmost button) to turn it on or off. If the buzzer goes off, short-press once to silence it for 30 minutes. Short-press again to turn it off completely.
- **Indicator Light Switch:** Long-press the buzzer button for 3 seconds to turn the indicator light on or off.

## 6. SPECIFICATIONS

| Feature | Detail |
| --- | --- |
| Model | SAWF-08P |
| Product Dimensions | 2.76 x 4.06 x 1.02 inches |
| Item Weight | 6.7 ounces |
| CO2 Detection Range | 400–5000ppm |
| CO2 Accuracy | ±(50ppm + 5%) |
| Temperature Detection Range | 0–50°C / 32–122°F |
| Temperature Accuracy | ±0.5°C; ±1°F |
| Humidity Detection Range | 5–95% RH, non-condensing |
| Humidity Accuracy | ±3% |
| Wireless Connection | IEEE 802.11 b/g/n 2.4GHz |

| Feature | Detail |
|---|---|
| Input | 5V === 1A (Type-C) |
| Smart Home Compatibility | Matter, Apple Home, Amazon Alexa, Google Home, SmartThings, Home Assistant |
| Batteries Required | No (Powered via USB-C) |

Image: Detailed technical specifications and physical dimensions of the AirGuard CO2 monitor.

## 7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use liquid cleaners or aerosols.
- **Placement:** Place the monitor in an area with good air circulation, away from direct sunlight, heat sources, or areas with high humidity to ensure accurate readings. Avoid placing it near vents or windows where drafts might affect readings.
- **Firmware Updates:** Regularly check the eWeLink app for firmware updates to ensure optimal performance and access to new features.

## 8. TROUBLESHOOTING

- **Inaccurate Readings:**

  - Ensure the device is placed in an appropriate location, away from direct air currents, heat sources, or areas with concentrated CO2 (e.g., directly above a person's breathing zone).
  - Perform a manual calibration for temperature and humidity via the Menu Mode if you suspect inaccuracies. For CO2, expose the device to fresh outdoor air (around 400ppm) for a period to allow for self-calibration.

- **Device Not Powering On:**

  - Verify the USB-C cable is securely connected to both the monitor and the power adapter.
  - Ensure the USB-A power adapter is functional and providing 5V/1A output.

- **Wi-Fi Connection Issues:**

  - Confirm your Wi-Fi network is 2.4GHz. The device does not support 5GHz networks.
  - Ensure the device is within range of your Wi-Fi router.
  - Re-enter pairing mode on the device and attempt to pair again through the app.

- **App Not Displaying Data:**

  - Check if the device is connected to Wi-Fi (Wi-Fi icon on display should be solid).
  - Ensure your smartphone has an active internet connection.
  - Restart the app or the device.

## 9. WARRANTY AND SUPPORT

The SONOFF AirGuard CO2 Smart Indoor Air Quality Monitor comes with a**Two-year warranty**. For any technical assistance, product inquiries, or warranty claims, please contact SONOFF customer support:

- **Customer Support Email:** support@itead.cc

- **Return Policy:** 30-day refund/replacement policy through Amazon.

## 10. SAFETY INFORMATION

- Do not expose the device to extreme temperatures, direct sunlight, or high humidity.
- Keep the device away from water and other liquids.
- Do not attempt to disassemble or repair the device yourself. Refer to qualified personnel for service.
- Use only the specified power input (5V/1A) to avoid damage.
- This device is intended for indoor use only.