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› SENCKIT Smart Air Quality Monitor (Model: wifi-air-1) User Manual

## SENCKIT wifi-air-1

# SENCKIT Smart Air Quality Monitor (Model: wifi-air-1)

## USER MANUAL

### 1. Introduction

The SENCKIT Smart Air Quality Monitor (Model: wifi-air-1) is designed for remote monitoring of indoor air quality. This device detects five key environmental parameters: Formaldehyde (CH<sub>2</sub>O), Carbon Dioxide (CO<sub>2</sub>), Volatile Organic Compounds (VOCs), Temperature, and Humidity. It integrates with the Tuya Smart or Smart Life App, allowing users to monitor air quality in real-time and automate smart home devices based on environmental conditions.

#### Package Contents:

- 1 x SENCKIT Smart Air Quality Monitor
- 1 x Instruction Manual
- 1 x Card Pin
- 1 x USB Power Supply Cord



Image 1.1: SENCKIT Smart Air Quality Monitor with its companion app interface.

## 2. Safety Information

- Ensure the device is powered by a stable USB 5V/1A power source.
- Do not expose the device to extreme temperatures, direct sunlight, or high humidity.
- Avoid placing the device near strong electromagnetic fields.
- Do not attempt to disassemble or repair the device yourself. Contact support if issues arise.
- Keep out of reach of children.

## 3. Product Features

The SENCKIT Smart Air Quality Monitor offers comprehensive indoor air quality assessment and smart home integration:

- **Multi-Parameter Detection:** Monitors Formaldehyde (CH<sub>2</sub>O), Carbon Dioxide (CO<sub>2</sub>), Volatile Organic Compounds (VOCs), Temperature, and Humidity.
- **Wi-Fi Connectivity:** Connects to your home's 2.4GHz Wi-Fi network for remote monitoring and control via the Tuya Smart or Smart Life App. (Note: Not compatible with 5GHz Wi-Fi networks).
- **App Alerts:** Receive notifications on your smartphone when air quality parameters exceed predefined thresholds.
- **Smart Home Automation:** Integrate with other Tuya-compatible smart devices (e.g., air purifiers,

humidifiers, fans) to automatically adjust your home environment based on air quality readings.

- **Data Logging:** View historical data and trends through the app's user-friendly interface.



Image 3.1: Overview of the monitor's features and app compatibility.

## 4. Setup

### 4.1. Unboxing and Initial Inspection

Carefully remove all components from the packaging. Verify that all items listed in the 'Package Contents' section are present and undamaged.

### 4.2. Powering On the Device

Connect the provided USB power supply cord to the monitor and plug it into a standard USB 5V/1A power adapter (not included) or a compatible USB port. The device will power on automatically.

### 4.3. App Installation

1. Download the **Tuya Smart** or **Smart Life** app from your smartphone's app store (App Store for iOS, Google Play Store for Android).
2. Register for a new account or log in if you already have one.

### 4.4. Device Pairing with App

1. Ensure your smartphone is connected to a 2.4GHz Wi-Fi network.
2. Open the Tuya Smart or Smart Life app.
3. Tap the "+" icon in the top right corner to add a device.
4. Select "Sensors" or search for "Air Quality Monitor" or "Smart Air Box."
5. Follow the on-screen instructions to put the device into pairing mode (usually involves pressing and holding a button on the device until an indicator light flashes).
6. Confirm the Wi-Fi network and enter the password when prompted in the app.
7. Wait for the device to connect. Once connected, you can rename the device and assign it to a room.

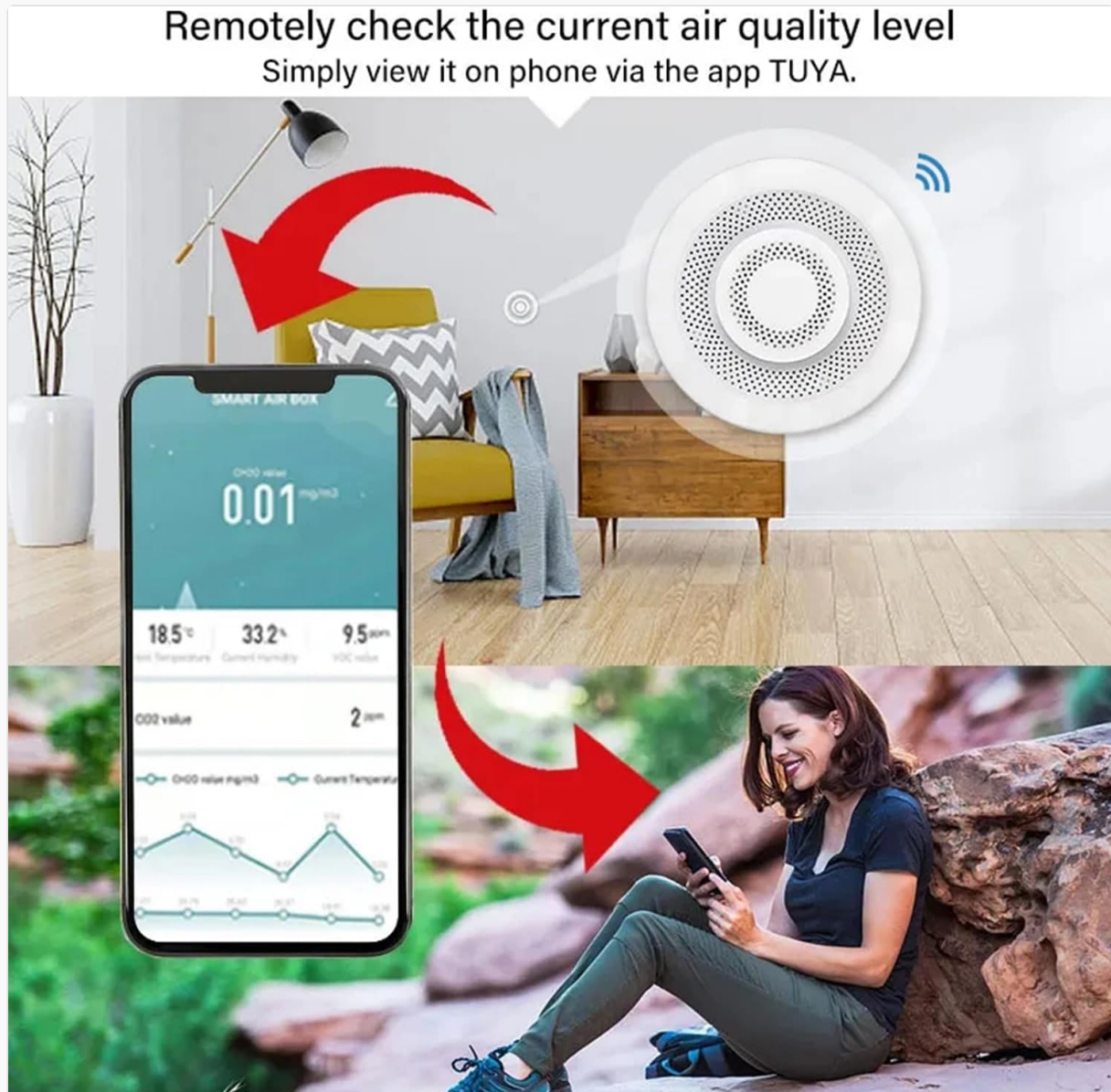


Image 4.1: Remote monitoring of air quality via the Tuya app.

# Tuya smart app

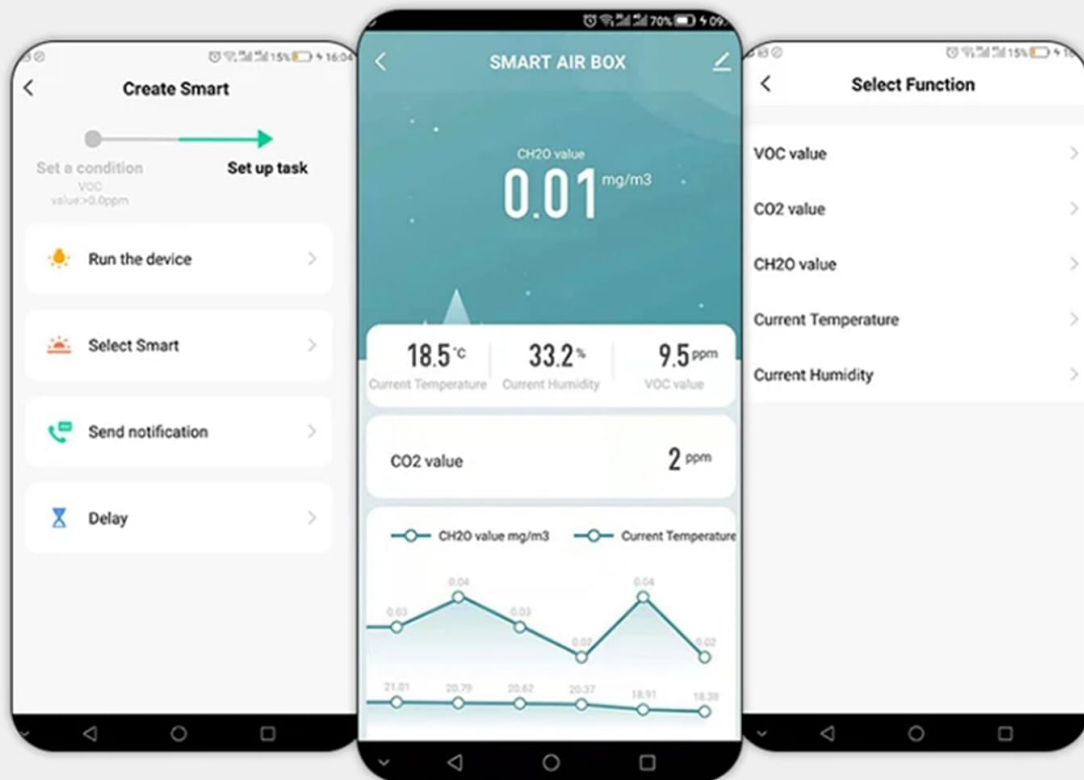


Image 4.2: Tuya Smart app interface for monitoring and control.

## 5. Operating Instructions

### 5.1. Monitoring Air Quality

Once connected, open the Tuya Smart or Smart Life app to view real-time readings for CH<sub>2</sub>O, CO<sub>2</sub>, VOCs, Temperature, and Humidity. The app provides a dashboard with current values and historical data graphs.

### 5.2. Understanding Readings

- **CH<sub>2</sub>O (Formaldehyde):** A colorless, pungent-smelling gas. High levels can cause irritation.
- **CO<sub>2</sub> (Carbon Dioxide):** A gas naturally present in the atmosphere. Elevated indoor levels can indicate poor ventilation and lead to drowsiness or headaches.
- **VOCs (Volatile Organic Compounds):** Organic chemicals that evaporate easily. Sources include paints, cleaning supplies, and furnishings. High levels can cause health issues.
- **Temperature & Humidity:** Essential for comfort and preventing mold growth.

Refer to local or international guidelines for recommended safe levels of these parameters.

### 5.3. Smart Home Automation

The app allows you to create automated scenarios based on air quality readings:

1. In the app, navigate to the "Smart" or "Automation" section.
2. Set a condition, for example, "When CH<sub>2</sub>O value exceeds 0.1 mg/m<sup>3</sup>."
3. Set a task, such as "Turn on Smart Air Purifier" or "Send notification to phone."
4. You can also set conditions for temperature or humidity to trigger smart humidifiers or fans.

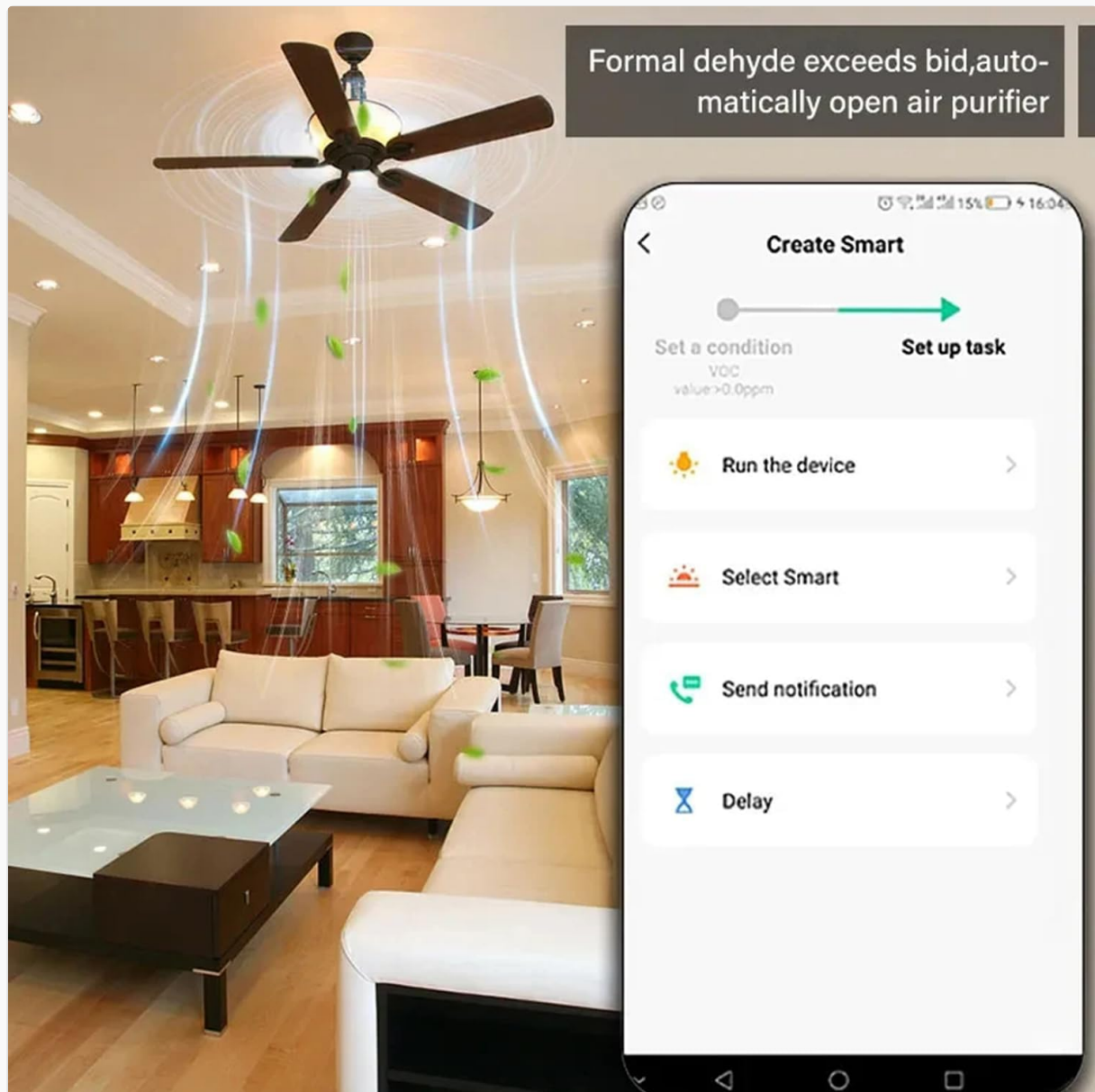


Image 5.1: Automation example: Air purifier activation based on formaldehyde levels.



Image 5.2: Automation example: Humidifier activation for dry air.

## 6. Maintenance

### 6.1. Cleaning

Wipe the device regularly with a soft, dry cloth to remove dust. Do not use liquid cleaners or abrasive materials, as these can damage the sensors or casing.

### 6.2. Sensor Calibration

The device is designed for continuous monitoring. If you suspect inaccurate readings, ensure the device is placed in a well-ventilated area for a period to allow sensors to stabilize. Avoid placing it directly near sources of pollutants or strong air currents.

## 7. Troubleshooting

- **Device not powering on:** Ensure the USB cable is securely connected and the power adapter is functioning correctly. Try a different USB port or adapter.

- **Cannot connect to Wi-Fi:**

- Verify your Wi-Fi network is 2.4GHz. The device does not support 5GHz networks.
- Ensure your Wi-Fi password is entered correctly.
- Move the device closer to your Wi-Fi router.
- Restart your router and the air quality monitor.

- **Readings appear inaccurate or stuck:**

- Ensure the device is placed in an area with good air circulation, away from direct drafts or stagnant air pockets.
- Avoid placing the device near strong sources of heat, cold, or chemicals.
- Allow the device to operate for at least 24 hours after initial setup for sensors to stabilize.
- If CO2 readings seem consistently low, try placing the device outdoors for 10-15 minutes to allow it to recalibrate to fresh air levels (around 400-450 ppm).

- **App notifications not received:** Check your app settings to ensure notifications are enabled. Also, verify your phone's notification settings for the Tuya Smart/Smart Life app.

## 8. Specifications

| Parameter                          | Value                                       |
|------------------------------------|---------------------------------------------|
| Model Number                       | wifi-air-1                                  |
| App Compatibility                  | Tuya Smart / Smart Life App                 |
| Communication Protocol             | WIFI 2.4GHZ (Not compatible with 5G)        |
| Power Supply                       | USB 5V/1A                                   |
| Working Voltage (rated)            | 4.8-12V                                     |
| Working Current                    | 10-496mA                                    |
| Working Temperature                | -20°C to 85°C (-4°F to 185°F)               |
| Measurement Accuracy (Temperature) | ±1°C                                        |
| Measurement Accuracy (Humidity)    | ±5%RH                                       |
| Dimensions                         | 90 x 90 x 35 mm (3.52 x 3.52 x 1.37 inches) |
| Item Weight                        | 2.4 ounces                                  |
| Shell Material                     | PVC                                         |

## 9. Warranty and Support

SENCKIT products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the contact details provided on the product packaging or the official SENCKIT website. Please retain your proof of purchase for warranty claims.

