



Indoor Air Quality Monitor For Home User (SenseAir8) (User Manual)

1. Main features

Real-Time Air Quality Monitoring

Continuously measures and displays AQI with fast response time.

Multi-Parameter Detection

Accurately tracks PM2.5, PM10, TVOC, formaldehyde (HCHO), and CO₂ levels.

Environmental Comfort Readings

Displays temperature and humidity for complete indoor air insights.

Color-Coded AQI Indicator

Instantly visualize air quality status with a dynamic gauge from green (good) to red (hazardous).

High-Visibility LCD Display

Large, easy-to-read screen showing all metrics simultaneously with intuitive layout.

Portable and Rechargeable Design

Built-in battery and compact form make it ideal for use at home, in the office, or on the go.

User-Friendly Operation

Plug-and-play setup with no app required—just turn it on and start monitoring.

2. Technical Specification

Power supply	2500mAh battery, DC 5V input, Type-C charging port. up to 10 hours of battery runtime
Dimension	95*95*39(mm) / 3.74*3.74*1.53(inch)
Standard	GB/T 18883-2022
Sampling Frequency	Less than 1 second
Measurement Range	CO ₂ : 400-5000 ppm PM2.5: 0-999 µg/m ³ Pm10: 0-999 µg/m ³ HCHO: 0.001-1.999 mg/m ³ TVOC: 0.000-9.999 mg/m ³ AQI: 0-500 ppm
Threshold value	CO ₂ : >1000 ppm over limit PM2.5: >75 µg/m ³ over limit PM10: >50 µg/m ³ over limit HCHO: >0.080 mg/m ³ over limit TVOC: >0.600 mg/m ³ over limit AQI: >100 ppm over limit
Operating Temperature	-20~55°C (-4~131°F), humidity: 25~85%RH

3. Operating Instructions

Power On/Off

Press the button once to power on the device.

Press and hold the button for 2 seconds* to power it off.

Brightness Adjustment

While the device is on, press the button once to switch between two brightness levels.

Temperature Unit Switch

Quickly double-press the button to toggle between Celsius (°C) and Fahrenheit (°F).

TVOC & HCHO Sensor Warm-Up

Upon powering on, please place the device outdoors in a clean, fresh-air environment.

The TVOC and HCHO sensors will automatically perform a 120-second warm-up calibration.

Once the countdown is complete, you may bring the device indoors for accurate testing.

Note: Each time the device is restarted, TVOC and HCHO readings will reset and require the same outdoor preheating process.

4. Precautions

Avoid Water and Dust

Do not expose the device to water or use it in environments with heavy dust.

Temperature Limitations

Do not place the device in high-temperature environments exceeding 55°C/131°F. Avoid direct sunlight exposure, especially when measuring airquality inside a vehicle.

Do Not Disassemble

This product is a precision measurement instrument. Do not attempt to disassemble or modify it.

Charging Temperature Effects

During charging, internal circuitry and battery heat may cause the displayed temperature to read 3°C to 5°C (5°F to 9°F) higher than actual.

Ensure Accurate Temperature Readings

For accurate temperature readings, allow the device to cool down for a short period after charging before taking measurements.

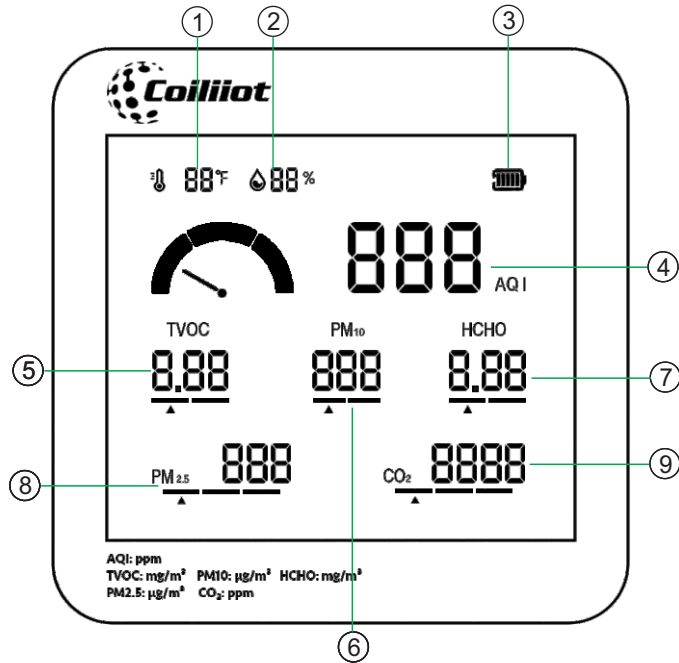
Storage for Long-Term Inactivity

If the device will not be used for an extended period, fully charge it, power it off, and store it in a safe place.

Formaldehyde Sensor Interference

The formaldehyde (HCHO) sensor uses a professional MEMS module. It may also detect gases with molecular structures similar to formaldehyde, leading to potential interference. Common interfering substances include, but are not limited to: alcohol, cooking wine, vinegar, perfume, cologne, skincare products, and acidic fruits. For best results, avoid testing in environments containing such substances.

6. Panel Description



No	Component	Description
1	Temperature Display	Shows current ambient temperature in °C or °F.
2	Humidity Display	Displays the current relative humidity percentage.
3	Battery Indicator	Shows current battery status and charging level.
4	Air Quality Index (AQI)	Indicates the calculated AQI value with large digits and a color-coded gauge.
5	TVOC Level	Displays Total Volatile Organic Compounds in mg/m ³ .
6	Pm ₁₀ Concentration	Particulate Matter 10µm level in µg/m ³ .
7	HCHO (Formaldehyde) Level	Shows formaldehyde concentration in mg/m ³ .
8	PM _{2.5} Concentration	Particulate Matter 2.5µm level in µg/m ³ .
9	Co ₂ Level	Displays carbon dioxide concentration in ppm.



For a more detailed operation manual, please scan this QR code to obtain it!



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