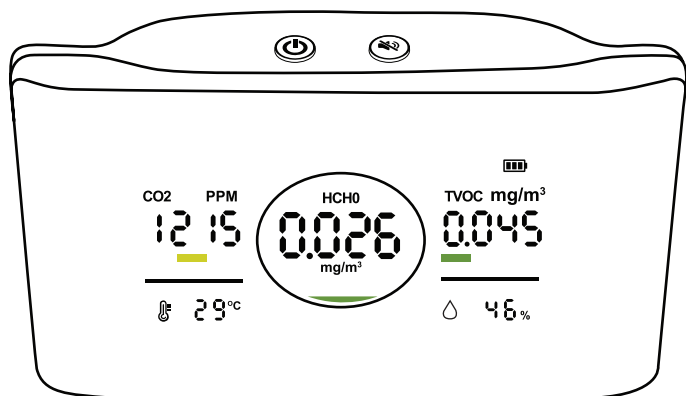


AIR QUALITY MONITOR

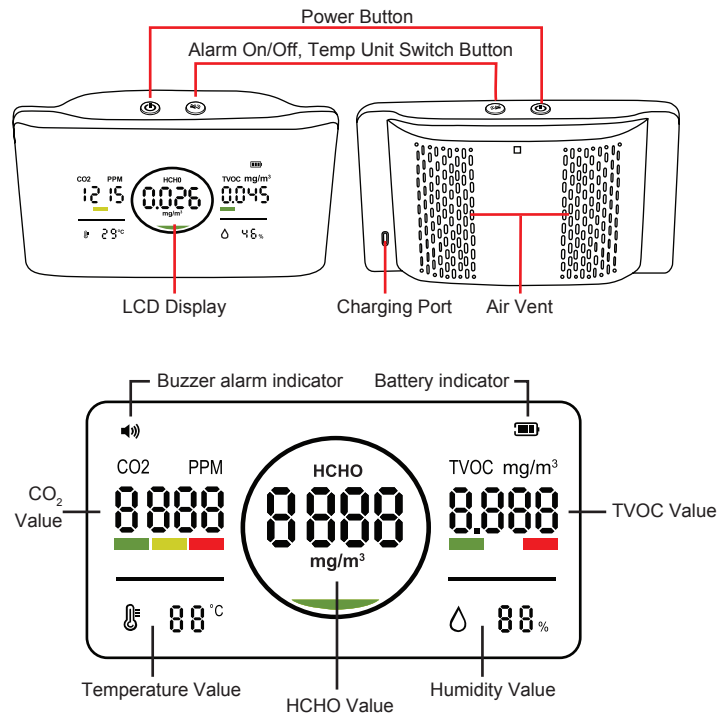
USER MANUAL



PRODUCT FEATURES

- Formaldehyde (HCHO) Concentration Measurement
- Toluene (TVOC) Measurement
- Temperature and Humidity Measurement
- Audible Alarm for HCHO
- Large LCD Display Screen
- Battery Level Indicator
- Carbon Dioxide (CO₂) Concentration Measurement

NAME OF PARTS



OPERATING INSTRUCTIONS

1. Power ON/OFF

Press and hold the button for 3 seconds to power on or off the device. After turning on the device, place it in the desired testing location and wait for 5 minutes before checking the results.

2. Buzzer Alarm

When the formaldehyde (HCHO) reading exceeds 0.080mg/m³, the device will emit a buzzer alarm. Simply press the button to turn the buzzer alarm on or off. will appear in the left corner of the LCD screen when the buzzer alarm is activated.

3. Temperature unit selection

Press and hold the button for 3 seconds to switch between °C and °F units.

4. Power-saving mode

The device enters power-saving mode after 1 hour of use, resulting in a dimmer screen. Press the button to increase the brightness if needed.

Notes:

- This device is equipped with a professional electrochemical formaldehyde sensor that instantly measures levels upon activation.
- Place the device at a fixed point during the test and maintain stable airflow. Keep it flat or hold it to prevent blocking the rear vent, which can cause measurement errors.
- To prevent interference with the sensor, avoid exposure to perfume, toilet water, alcohol, kitchen cooking wine, vinegar, cooking fumes, and acidic fruits during the test.
- For accurate results, it is recommended to conduct the formaldehyde test during high daytime temperatures when formaldehyde is more likely to be released. Formaldehyde concentrations are lower during cooler nighttime temperatures, which may result in lower test data.
- To ensure accurate formaldehyde readings, the room should be sealed for approximately 12 hours prior to testing.

STANDARDS

a. Formaldehyde Standard:

Refer to GB 50325-2010. It is recommended to close the doors and windows of the room for 12 hours before testing:

	concentration < 0.080mg/m ³ , (standard is not exceeded)
	0.080 ≤ formaldehyde concentration < 0.300mg/m ³ (slight to moderate exceedance of the standard)
	concentration ≥ 0.300mg/m ³ severe exceedance of the standard

b. Organic Volatile Gas (TVOC) Standard:

Refer to GB/T18883-2002. It is recommended to close the doors and windows of the room for 12 hours before testing:

	TVOC concentrations ≤ 0.45 mg/m ³ are within the standard limit.
	TVOC concentrations > 0.45 mg/m ³ exceed the standard limit.

c. Carbon Dioxide Standard (refer to the registration table of the average daily concentration of carbon dioxide in China and the United States):

	CO ₂ levels between 400~1000PPM are within the qualified range
	CO ₂ levels between 1001~1999PPM slightly exceed the standard
	CO ₂ levels between 2000~5000PPM are significantly exceeded

SPECIFICATIONS

Formaldehyde

Detection Item:	Airborne Formaldehyde
Detection Range:	0.000~5.000 mg/m ³
Detection Technology:	Advanced Gas Electrochemical Sensor
Collection Method:	Diffusion Collection
Unit:	mg/m ³

TVOC

Detection Item:	Total Volatile Organic Compounds
Detection Range:	0.000~9.99mg/m ³
Detection Time:	5 minutes
Detection Technology:	Advanced Gas Electrochemical Sensor
Collection Method:	Diffusion Collection
Unit:	mg/m ³

CO₂

Detection Item:	CO ₂
CO ₂ Measurement Range:	400~5000ppm

Temperature and Humidity

Detection Item:	Temperature and Humidity
Temperature Measurement Range:	-20 to 40°C / -4°F to 104°F
Humidity Measurement Range:	20 to 99%

Main Unit

Main Unit	15.6x4x8.8cm/6.1x1.6x3.5 inches
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Power Supply

Battery Capacity:	2500mAh polymer lithium battery
Charging Method:	DC5V Type-C interface
Input Specification:	5.0V / 1000mA
Charging Temperature:	10°C to 40°C/14°F to 104 °F

Note: The temperature display may have a slight deviation due to the heat dissipation of the detector sensor during operation, which is normal.

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WARRANTY

The meter is covered by a one-year warranty from the date of purchase against defects in material and workmanship. This warranty applies to normal operation only and does not cover misuse, abuse, alteration, neglect, improper maintenance, or damage caused by leaking batteries. Proof of purchase is necessary for warranty repairs, and the warranty becomes void if the meter is opened.

FREQUENTLY ASKED QUESTIONS

Q1: What is the recommended course of action if the measured value stays high after spraying perfume near the product?

A: Please place the device outdoors until the reading drops. Please avoid exposure to chemical pollutants like spices, perfumes, paints, cigarettes, air fresheners, alcohol, etc., to prevent sensor damage during testing.

Q2: How to detect formaldehyde content in areas of different sizes?

A:

- Set 1~3 points for rooms under 50m³, 3~5 points for 50~100m³, and at least 5 points for over 100m³, evenly distributed on the diagonal or in a plum blossom pattern
- Sampling points away from vents and at least 0.5m from walls
- Sampling point height should align with human breathing height, between 0.5m and 1.5m.

Q3: Why does the detector display a black screen?

A: The detector shuts down due to low power for protection. Ensure the detector has sufficient power before use.

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ATTENTION

- Avoid contact with alcohol, perfume, and other volatile substances when using this product for detection to prevent interference with the sensor.
- Fluctuations in detected HCHO values are normal due to varying air quality entering the sensor vent at different times.
- Place the product in an area with stable airflow and avoid direct exposure to strong winds from fans or heaters to ensure accurate detection results.
- For optimal results, seal windows and doors for 12 hours before testing formaldehyde and TVOC levels in various indoor spaces. Test multiple points in a room for an average reading.
- Sudden spikes in formaldehyde levels may indicate interference from surrounding substances. Test at different times if values are abnormal.

Warning: Avoid disassembling, impacting, squeezing, or exposing the product to fire. Discontinue use if severe swelling occurs or if the product is placed in a high-temperature environment.

SAFETY AND MAINTENANCE

- Avoid placing the product in chemically polluted environments as this may cause damage.
- Ensure the product is not used in extreme temperatures or humidity levels to maintain measurement accuracy.
- Do not disassemble the internal device or outer shell.
- Clean gently with a terry cloth, avoiding the use of a wet cloth.
- Prevent strong impact or vibration, such as dropping the product.
- Avoid blowing directly through the vent or blocking the detection hole.
- Keep foreign matter and water from entering the machine.
- Do not cover the instrument with cloth.

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