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> [VSON Indoor Air Quality Monitor \(Model WP6932\) User Manual](#)

## VSON WP6932

# VSON Indoor Air Quality Monitor (Model WP6932) User Manual

Comprehensive Guide for Operation and Maintenance

## 1. INTRODUCTION

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Thank you for choosing the VSON Indoor Air Quality Monitor, Model WP6932. This device is designed to provide accurate, real-time measurements of various indoor air quality parameters, including Formaldehyde (HCHO), Total Volatile Organic Compounds (TVOC), Particulate Matter (PM2.5, PM1.0, PM10), Temperature, and Humidity. By monitoring these factors, you can ensure a healthier living or working environment. Please read this manual thoroughly before using the device to ensure proper operation and to maximize its lifespan.

## 2. PRODUCT OVERVIEW AND FEATURES

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The VSON Indoor Air Quality Monitor is a portable, multi-functional device equipped with advanced sensor technology for precise air quality assessment.



**Figure 2.1:** Front view of the VSON Indoor Air Quality Monitor displaying its 2.8-inch color screen with real-time readings for air pollution level, HCHO, TVOC, PM2.5, PM1.0, PM10, temperature, and humidity. The image highlights key features like ARM intelligent computing and historical data recording.

## Key Features:

- **Multi-functional Detection:** Accurately measures HCHO, TVOC, PM2.5, PM1.0, PM10, Temperature, and Humidity.
- **Advanced Sensor Technology:** Incorporates an electrochemical methanal sensor, laser PM2.5 sensor, temperature sensor, and humidity sensor for reliable data.
- **Real-time Monitoring:** Provides instant readings and historical data tracking for comprehensive air quality analysis.
- **Portable Design:** Lightweight (170g) with a built-in rechargeable lithium battery (6-8 hours standby) and USB charging for convenient use at home, in the car, or during travel.
- **Smart Reminder System:** Features an audible alarm and a color-changing interface (red for high risk) to alert users when pollutant levels exceed safe thresholds.
- **High-Definition Display:** 2.8-inch digital color LCD screen for clear visibility of all information.

# Four sensors for reliable guarantee

Multi-sensor and multi-functional. Unlike ordinary multi-functional detectors that use software-simulated values, each detection function is equipped with a highly sensitive sensor for reliable values.

## Electrochemical

Methanal sensor

## Laser

PM2.5 sensor

## Temperature sensor

## Humidity sensor

## Fan

## TVOC sensor

## Alarm buzzer

"Multiple ARM  
High-performance  
computing chips"



**Figure 2.2:** Internal diagram of the VSON Indoor Air Quality Monitor, illustrating the placement of its four main sensors: Electrochemical Methanal sensor, Laser PM2.5 sensor, Temperature sensor, and Humidity sensor. Also shown are the internal fan, TVOC sensor, alarm buzzer, and high-performance computing chips.

## 3. SETUP

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### 3.1 Initial Charging

Before first use, fully charge the device using the provided USB cable. Connect the USB cable to the device's charging port and a compatible USB power adapter (not included). The charging indicator will show the charging status.

### 3.2 First-Time Calibration

For optimal accuracy, it is crucial to perform an initial calibration. Place the monitor in an area with fresh, clean air (e.g., outdoors or near an open window) for 30 to 50 minutes. Turn on the device and allow it to stabilize and self-calibrate during this period. This process helps the sensors adjust to baseline environmental conditions.

## 4. OPERATING INSTRUCTIONS

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## 4.1 Power On/Off

- To power on, press and hold the **On/Off** button until the screen illuminates.
- To power off, press and hold the **On/Off** button until the screen turns off.

## 4.2 Real-time Monitoring

Once powered on, the device will automatically begin measuring air quality parameters and display them on the 2.8-inch LCD screen. The display shows:

- **Overall Air Pollution Level:** An indicator of general air quality.
- **HCHO (Formaldehyde):** Concentration in  $\text{mg}/\text{m}^3$ .
- **TVOC (Total Volatile Organic Compounds):** Concentration in  $\text{mg}/\text{m}^3$ .
- **PM2.5, PM1.0, PM10:** Particulate matter concentrations in  $\mu\text{g}/\text{m}^3$ .
- **TEMP (Temperature):** Current ambient temperature.
- **HUM (Humidity):** Current ambient humidity.



**Figure 4.1:** The VSON Indoor Air Quality Monitor displaying real-time data monitoring with a graph showing HCHO readings over time. The graph illustrates value increase, stability, and decrease, indicating changes in indoor air quality.

## 4.3 Smart Reminder and Alarm

The monitor analyzes detected data and provides a risk assessment. If any measured value exceeds the normal or

safe range, the device will:

- Emit an audible alarm.
- Change the interface color to red to visually indicate a high-risk situation.

#### 4.4 Historical Data Recording

The device records historical data, allowing you to track air quality trends over time. Use the navigation buttons (usually labeled with arrows or 'Week'/'Month' on screen) to view past readings.



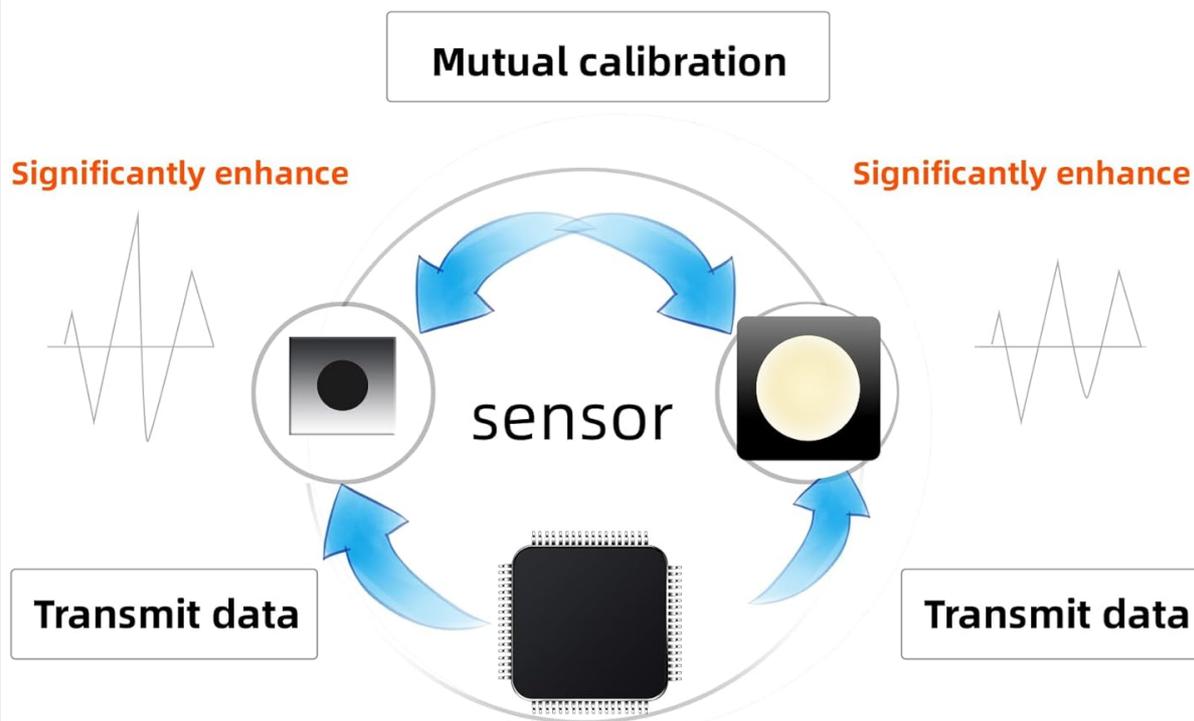
**Figure 4.2:** The VSON Indoor Air Quality Monitor screen showing historical data for HCHO readings, with options to view data by week or month. The display indicates a specific date (2023-05-19) and HCHO value (0.011).

## 5. CALIBRATION

The VSON monitor features advanced temperature difference compensation calibration technology. This system automatically adjusts detection results based on environmental temperature data to maintain accuracy.

# Temperature difference compensation calibration technology

Judge the environmental temperature data and automatically calibrate the detection results



## AD intelligent amplification computing

Collect surrounding air information, calibrate the measurement data of formaldehyde and TVOC in real time according to the air temperature difference result. Through AD data intelligent computing amplification, the detection reliability is greatly improved.

**Figure 5.1:** Diagram explaining the Temperature Difference Compensation Calibration Technology. It shows how the sensor transmits data, undergoes mutual calibration, and significantly enhances detection reliability by judging environmental temperature data and automatically calibrating results.

Beyond the initial calibration (Section 3.2), if you suspect inaccurate readings or after prolonged storage, you may perform a manual recalibration by placing the device in a fresh air environment for 30-50 minutes.

## 6. MAINTENANCE

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### 6.1 Cleaning

To clean the device, gently wipe the exterior with a soft, dry cloth. Do not use abrasive cleaners, solvents, or immerse the device in water. Ensure the air inlets and outlets are free from dust and obstructions.

### 6.2 Battery Care

Recharge the built-in lithium battery when the battery indicator shows low power. Use only the provided USB cable for charging. Avoid overcharging or completely draining the battery for extended periods to prolong its lifespan.

## 7. TROUBLESHOOTING

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- **Device does not turn on:** Ensure the battery is charged. Connect to a USB power source and try again.
- **Readings appear inaccurate or stuck:** Perform a recalibration by placing the device in fresh air for 30-50 minutes. Ensure the air inlets are not blocked.
- **Alarm sounds frequently:** Check the displayed pollutant levels. If levels are high, ventilate the area. If levels are normal and the alarm persists, try recalibrating the device.
- **Screen is blank or unresponsive:** Try restarting the device. If the issue persists, ensure it is fully charged.
- **Charging issues:** Ensure the USB cable is securely connected to both the device and the power source. Try a different USB port or adapter.

## 8. SPECIFICATIONS

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Parameter	Value
Brand	VSON
Model Number	WP6932
Dimensions (L x W x H)	15 x 6.75 x 3.74 cm
Weight	170 Grams
Material	ABS
Power Source	Built-in Rechargeable Lithium Battery (USB powered)
Battery Life (Standby)	6-8 hours
Alarm Type	Audible
Sensor Types	Electrochemical (HCHO, TVOC), Laser (PM2.5), Temperature, Humidity
Display	2.8-inch Digital Color LCD
UPC	739210350338

## 9. WARRANTY AND SUPPORT

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Information regarding product warranty and customer support is not available in the provided product data. Please refer to the product packaging or the retailer's website for specific warranty terms and contact details for support.