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› **TROMAR 9-in-1 Air Quality Monitor User Manual**

**TROMAR VT-9IN1**

# TROMAR 9-in-1 Air Quality Monitor User Manual

Model: VT-9IN1

## 1. INTRODUCTION

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Thank you for choosing the TROMAR 9-in-1 Air Quality Monitor. This portable device is designed to provide comprehensive real-time monitoring of various indoor air pollutants and environmental factors. It is an essential tool for maintaining a healthy living and working environment in homes, offices, schools, and other indoor spaces.

This monitor accurately detects Carbon Dioxide (CO<sub>2</sub>), Carbon Monoxide (CO), Formaldehyde (HCHO), Total Volatile Organic Compounds (TVOC), Particulate Matter (PM<sub>2.5</sub> and PM<sub>10</sub>), Air Quality Index (AQI), as well as Temperature and Humidity.



Figure 1: Front view of the TROMAR 9-in-1 Air Quality Monitor, showing its compact design and clear display.

## 2. PRODUCT FEATURES

- **Comprehensive Detection:** Simultaneously monitors 9 key air quality parameters: Carbon Dioxide (CO<sub>2</sub>), Carbon Monoxide (CO), Formaldehyde (HCHO), Total Volatile Organic Compounds (TVOC), PM2.5, PM10, Air Quality Index (AQI), Temperature, and Humidity.
- **High Accuracy Sensors:** Equipped with advanced PM2.5 sensors, semiconductor sensors, electrochemical sensors, and temperature/humidity sensors for precise real-time data.
- **Wide Measurement Ranges:**
  - HCHO: 0-9.999 mg/m<sup>3</sup>
  - TVOC: 0-9.999 mg/m<sup>3</sup>
  - Temperature: 0-70 °C
  - Humidity: 0-99% RH
  - CO<sub>2</sub>: 400-5000 PPM
  - CO: 0-5000 PPM
  - PM2.5: 0-999 ug/m<sup>3</sup>
  - PM10: 0-999 ug/m<sup>3</sup>
  - AQI: 0-999
- **Rechargeable Battery:** Features a built-in 1500mA battery with a Type-C interface for convenient and repeated charging.

- **Portable Design:** Compact and lightweight, making it easy to carry and use in various locations.

### 3. PACKAGE CONTENTS

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Please check the package contents upon opening to ensure all items are present and undamaged:

- TROMAR 9-in-1 Air Quality Monitor (VT-9IN1)
- USB Type-C Charging Cable
- User Manual

### 4. SETUP

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#### 4.1 Initial Charging

Before first use, fully charge the device. Connect the provided USB Type-C cable to the monitor's charging port and the other end to a standard USB power adapter (not included) or a computer USB port. The battery indicator on the display will show charging status. A full charge typically takes 2-3 hours.

#### 4.2 Powering On/Off

To power on the device, press and hold the **Power Button** (usually marked with a circle and vertical line) located on the front panel until the display illuminates. To power off, press and hold the same button until the display turns off.



Figure 2: The TROMAR Air Quality Monitor shown with its integrated kickstand extended for convenient viewing.

## 5. OPERATING INSTRUCTIONS

### 5.1 Understanding the Display

The monitor features a clear color display that presents all detected parameters simultaneously. Refer to the diagram below for an explanation of each indicator:

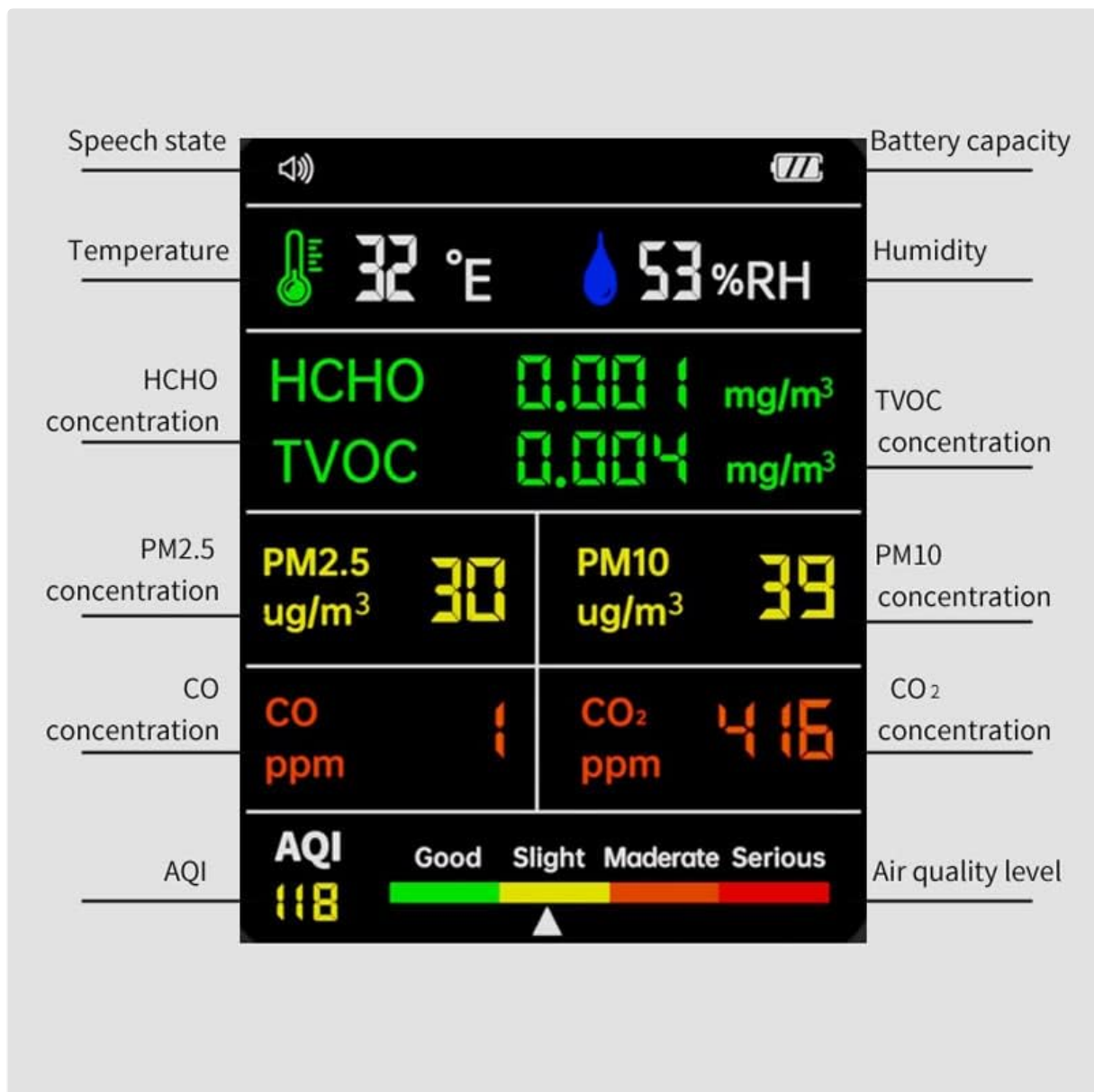


Figure 3: Detailed breakdown of the monitor's display, indicating the location and meaning of each measurement and status icon.

- **Speech State Icon:** Indicates if voice prompts are active.
- **Battery Capacity Icon:** Shows current battery level.
- **Temperature:** Displays ambient temperature in Celsius.
- **Humidity:** Displays relative humidity in percentage.
- **HCHO Concentration:** Formaldehyde levels in mg/m<sup>3</sup>.
- **TVOC Concentration:** Total Volatile Organic Compounds levels in mg/m<sup>3</sup>.
- **PM2.5 Concentration:** Particulate Matter 2.5 levels in ug/m<sup>3</sup>.
- **PM10 Concentration:** Particulate Matter 10 levels in ug/m<sup>3</sup>.
- **CO Concentration:** Carbon Monoxide levels in ppm.
- **CO<sub>2</sub> Concentration:** Carbon Dioxide levels in ppm.
- **AQI:** Air Quality Index, providing an overall assessment of air quality.
- **Air Quality Level Bar:** A color-coded bar indicating the current AQI level (Good, Slight, Moderate, Serious).

## 5.2 Button Functions

- **Power Button ( ):** Press and hold to power on/off. Short press may cycle through display modes or

confirm selections (refer to specific model behavior).

- **Speaker Button ( ):** Short press to toggle voice prompts on/off.
- **Function Button (Fn):** Used to access additional settings or switch between different display interfaces if available. Consult the on-screen prompts for specific functions.

### 5.3 Interpreting Readings

The monitor provides real-time readings for all parameters. The AQI (Air Quality Index) and its corresponding color bar offer a quick visual summary of overall air quality:

- **Green:** Good air quality.
- **Yellow:** Moderate air quality, sensitive individuals may experience minor effects.
- **Orange:** Unhealthy for sensitive groups.
- **Red:** Unhealthy for everyone.
- **Purple/Maroon:** Very unhealthy/Hazardous.

For specific pollutant levels, refer to local or international air quality guidelines to understand safe and unsafe thresholds.

## 6. MAINTENANCE

### 6.1 Cleaning

Wipe the device gently 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 Storage

When not in use for extended periods, store the monitor in a cool, dry place away from direct sunlight and extreme temperatures. It is recommended to charge the device every 3 months to maintain battery health.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low battery; device malfunction.	Charge the device for at least 30 minutes. If it still doesn't turn on, contact customer support.
Readings seem inaccurate or fluctuate wildly.	Device not calibrated; sensor obstruction; environmental interference.	Ensure the device is in a stable environment away from strong air currents or direct sources of pollution. Allow 5-10 minutes for readings to stabilize after power-on. If issues persist, contact support.
Display is dim or unresponsive.	Low battery; software glitch.	Charge the device. Try restarting the device by holding the power button.

## 8. SPECIFICATIONS

Parameter	Value
Brand	TROMAR

Parameter	Value
Model Number	VT-9IN1
Power Source	Battery Powered (1500mA built-in)
Charging Interface	USB Type-C
Sensor Type	Electrochemical, Semiconductor, PM2.5, Temperature/Humidity
Operating Humidity	0-99% RH
HCHO Range	0-9.999 mg/m <sup>3</sup>
TVOC Range	0-9.999 mg/m <sup>3</sup>
Temperature Range	0-70 °C
CO2 Range	400-5000 PPM
CO Range	0-5000 PPM
PM2.5 Range	0-999 ug/m <sup>3</sup>
PM10 Range	0-999 ug/m <sup>3</sup>
AQI Range	0-999
Dimensions	Approximately 157mm x 70mm x 30mm
UPC	749757251012



Figure 4: Diagram illustrating the approximate dimensions of the TROMAR 9-in-1 Air Quality Monitor.

## 9. WARRANTY AND SUPPORT

The TROMAR 9-in-1 Air Quality Monitor comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official TROMAR website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact TROMAR customer service. Contact information can typically be found on the product packaging or the official brand website.