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› EVTSCAN JD-3002 Air Quality Monitor User Manual

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EVTSCAN JD-3002 Air Quality Monitor User Manual

Model: JD-3002

1. OVERVIEW

This manual provides comprehensive instructions for the EVTSCAN JD-3002 Air Quality Monitor. This device is designed to measure and display levels of Carbon Dioxide (CO₂), Total Volatile Organic Compounds (TVOC), Formaldehyde (HCHO), temperature, and humidity in various environments. It is suitable for industrial and professional testing applications.

Key Features

- Measures CO₂, TVOC, HCHO, Temperature, and Humidity.
- Adjustable alarm settings for CO₂, TVOC, and HCHO.
- Temperature unit selection (Celsius/Fahrenheit).
- Mute function for alarm sound.
- Automatic data storage for alarm values.
- Built-in rechargeable lithium battery.



The EVTSCAN JD-3002 Air Quality Monitor, securely stored in its protective carrying case, alongside its USB charging cable.

2. PRODUCT COMPONENTS

Package Contents

Verify that all items are present in the package:

- 1 x EVTSCAN JD-3002 Air Quality Monitor
- 1 x USB Charging Cable



The EVTSCAN JD-3002 Air Quality Monitor displaying its screen, accompanied by the white USB charging cable.

3. DEVICE LAYOUT AND CONTROLS

Familiarize yourself with the device's buttons and display:

- **Power Button (Red)**: Press and hold for 2 seconds to turn the device on or off.
- **SET Button**: Short press to cycle through alarm value settings for CO2, TVOC, and HCHO.
- **"+" Button**: Increases values during alarm setting; used for data storage function.
- **"-" Button**: Decreases values during alarm setting; used for data storage function.
- **Mute Button (Speaker icon)**: Toggles the alarm sound on or off.
- **Temperature Unit Selection Button (°C/°F)**: Switches between Celsius and Fahrenheit temperature display.



A detailed view of the EVTSCAN JD-3002 Air Quality Monitor's control panel, highlighting the power, set, adjustment, mute, and temperature unit buttons.

4. SETUP

Charging the Device

1. Connect the provided USB charging cable to the device's charging port.
2. Connect the other end of the USB cable to a compatible USB power adapter (not included) or a computer USB port.
3. During charging, the battery icon on the display will flash sequentially.
4. The battery icon will be fully displayed and stop flashing once charging is complete.

Note: When the battery power is low, the battery icon will flash to remind the user to charge.

Powering On/Off

1. To power on, press and hold the **red Power button** for approximately 2 seconds. The device will initiate a 120-second countdown before displaying readings.
2. To power off, press and hold the **red Power button** for approximately 2 seconds.

5. OPERATING INSTRUCTIONS

Reading Measurements

Once powered on and the countdown is complete, the device will automatically begin displaying real-time measurements for CO₂, TVOC, HCHO, temperature, and humidity on its screen.

Setting Alarm Values

1. Short press the **SET button** to cycle through the alarm settings for CO₂, TVOC, and HCHO. The currently selected parameter's value will flash.
2. Use the "+" and "-" buttons to adjust the alarm threshold for the flashing parameter.
3. After adjusting, the value will be automatically stored after 10 seconds of inactivity.

Mute Function

Press the **Mute button** (speaker icon) to toggle the alarm sound on or off. When muted, the "volume prohibited" sign will not be displayed, and no audible alarm will sound. The default setting is with the sound enabled.

Temperature Unit Conversion

Press the **°C/°F button** to switch the temperature display between Celsius (°C) and Fahrenheit (°F).

Environmental Quality Indicators

The device provides visual indicators for air quality based on preset thresholds:

- **Excellent:** All detection values are below their respective set alarm values.
- **Good:**
 - CO₂ detection value is 50ppm higher than the set value.
 - TVOC detection value is 0.01 mg/m³ higher than the set value.
 - HCHO detection value is 0.03 mg/m³ higher than the set value.
- **Pollution:** A rapid sound alarm will activate (if not muted).
 - CO₂ detection value is 100ppm higher than the set value.
 - TVOC detection value is 0.02 mg/m³ higher than the set value.
 - HCHO detection value is 0.06 mg/m³ higher than the set value.

6. MAINTENANCE

Cleaning

Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents, as these may damage the casing or sensors.

Storage

Store the device in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, ensure the battery is partially charged to prolong its lifespan.

7. TROUBLESHOOTING

Device Not Turning On

- Ensure the device is sufficiently charged. Connect it to a power source and allow it to charge for at

least 30 minutes before attempting to power on again.

- Confirm you are pressing and holding the Power button for the required 2 seconds.

Inaccurate Readings

- Ensure the device is placed in an area with good air circulation and not directly exposed to strong drafts or stagnant air pockets.
- Avoid placing the device near sources of high heat, humidity, or chemical emissions that could interfere with sensor accuracy.
- Allow the device to stabilize for a few minutes after powering on, especially when moving it to a new environment.

Alarm Not Sounding

- Check if the mute function is activated. Press the **Mute button** to toggle the sound on.
- Verify that the alarm thresholds are set correctly and that current readings exceed these thresholds.

8. SPECIFICATIONS

Technical Specifications

Parameter	Range / Value
Model	JD-3002
CO2 Measurement Range	350ppm ~ 2000ppm
TVOC Measurement Range	0.000 mg/m ³ ~ 2.000 mg/m ³
HCHO Measurement Range	0.000 mg/m ³ ~ 1.000 mg/m ³
Temperature Measurement Range	0°C ~ 90.0°C (32°F ~ 194°F)
Temperature Accuracy	0.1°C (0.1°F, above 100°F displays integers)
Humidity Measurement Range	0 ~ 99.0 %RH
Humidity Precision	0.1 %RH
Power Supply	Built-in 3.7V Lithium Battery 2000mAh
Manufacturer	EVTSCAN
ASIN	B09FJHMRJ8
Date First Available	July 19, 2021