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› Carbon Monoxide Detector Portable Mini CO Gas Alarm with LCD Color Screen CO Meter Temperature Humidity Sensor Built-in 1000mAh Battery, Indoor/Outdoor User Manual

BOSEAN BH-X01

Carbon Monoxide Detector Portable Mini CO Gas Alarm

USER MANUAL

1. Introduction

Thank you for choosing the BOSEAN Portable Carbon Monoxide Detector. This device is designed to provide reliable detection of carbon monoxide (CO) gas, along with real-time monitoring of temperature and humidity. Its compact size, long battery life, and clear LCD screen make it ideal for both indoor and outdoor use, ensuring your safety in various environments.

Please read this manual thoroughly before operating the device to ensure proper use and to maintain its optimal performance.

2. Product Overview

The BOSEAN BH-X01 is a versatile 3-in-1 air quality monitor. It features a high-precision CO sensor, a temperature sensor, and a humidity sensor, all integrated into a portable design with a vibrant LCD color screen.



Figure 2.1: Front view of the BOSEAN Portable Carbon Monoxide Detector, showing the LCD display and speaker grille.



Figure 2.2: Detailed front view of the device, highlighting the display area and sensor placement.



Figure 2.3: Side view of the detector, showing the power and menu buttons.



Figure 2.4: Back view of the detector, featuring the product label and magnetic attachment points.



Figure 2.5: The detector's compact size and magnetic back design, illustrating its portability and ease of attachment.

Multi scenario application

Camping, RV, Home, Office



Figure 2.6: Examples of the detector's multi-scenario application, including camping, RV, home, and office environments.

100 HOUR SUPER LONG STANDBY TIME

Equipped a 1000mAh battery with fast TYPE-C charge

RECHARGEABLE LITHIUM BATTERY CAPACITY

DC3.7V/1000mAh

CHARGING TIME

$\leq 5h$

STANDBY TIME

$\geq 100h$



Type c
charging port



Reminder
Low battery

Figure 2.7: Information on the device's 100-hour super long standby time, powered by a 1000mAh rechargeable lithium battery with Type-C charging.

LCD COLOR SCREEN DISPLAY

easy to read



Adjustable screen
brightness



Switching temperature
units to °C/°F



100h standby
time



10-year sensor
lifespan



Figure 2.8: Close-up of the LCD color screen display, highlighting adjustable brightness, temperature unit switching, and sensor lifespan.



Figure 2.9: Diagram illustrating the high accuracy of temperature, humidity, and CO concentration monitoring, along with measurement ranges and error margins.

3. Setup

3.1 Initial Charging

Before first use, fully charge the device. Connect the provided Type-C USB cable to the charging port on the device and plug the other end into a standard USB power adapter (not included). The charging indicator on the screen will show charging status. A full charge typically takes approximately 5 hours.

3.2 Powering On/Off

To power on the device, press and hold the power button (usually marked with a circle or power symbol) on the side until the LCD screen illuminates. To power off, press and hold the power button again until the screen turns off.

3.3 Basic Display Understanding

Upon powering on, the LCD screen will display the current Carbon Monoxide (CO) concentration in parts per million (ppm), temperature in degrees Celsius (°C) or Fahrenheit (°F), and relative humidity (%RH).

The battery level indicator is also visible on the screen.

4. Operating Instructions

4.1 Monitoring CO, Temperature, and Humidity

The device continuously monitors CO levels, temperature, and humidity. Readings are updated in real-time on the LCD screen. Ensure the device is placed in an area where air can freely circulate for accurate readings.

4.2 Alarm Functions

The detector is equipped with an audible, visual (light flashing), and vibration alarm. When CO concentration reaches a dangerous level, the alarm will activate to alert you. Refer to the specifications for alarm thresholds.

4.3 Adjusting Screen Brightness

The screen brightness can be adjusted to suit different lighting conditions. Refer to the device's menu options (accessed via the 'M' button) to find the brightness setting.

4.4 Switching Temperature Units

You can switch between Celsius (°C) and Fahrenheit (°F) for temperature display. This option is typically found within the device's settings menu.

4.5 Low Battery Reminder

When the battery level is low, a low battery icon will appear on the screen, and an audible reminder may sound. Recharge the device promptly to ensure continuous operation.

4.6 Sensor Lifespan

The CO sensor in this device has an estimated lifespan of 10 years under normal operating conditions. Regular maintenance and proper storage can help maximize its longevity.

5. Maintenance

5.1 Cleaning

Clean the device regularly with a soft, dry cloth. Do not use abrasive cleaners, solvents, or strong chemicals, as these can damage the casing or internal components. Ensure the sensor openings are free from dust and debris.

5.2 Battery Care

The device uses a built-in 1000mAh Lithium Ion battery. To prolong battery life:

- Avoid fully discharging the battery frequently.
- Recharge the device when the low battery indicator appears.
- If storing the device for an extended period, charge it to about 50% and recharge every few months.

5.3 Storage

Store the detector in a cool, dry place, away from direct sunlight, extreme temperatures, and high humidity. Keep it away from corrosive gases or chemicals that could affect sensor performance.

6. Troubleshooting

6.1 Device Does Not Power On

- Ensure the battery is sufficiently charged. Connect the device to a power source and allow it to charge for at least 30 minutes before attempting to power on again.
- Verify that the power button is pressed and held for the required duration.

6.2 Inaccurate Readings

- Ensure the sensor openings are not obstructed by dust or debris. Clean the device as per maintenance instructions.
- Avoid placing the device near strong air currents, vents, or sources of high heat/humidity, which can affect readings.
- If CO readings seem consistently high without a known source, evacuate the area and seek professional assistance.

6.3 Alarm Sounds Continuously

- If the CO alarm sounds, immediately move to fresh air and ventilate the area. Do not ignore CO alarms.
- If the alarm sounds without a detectable CO source, the sensor may be faulty or require calibration. Contact customer support.

7. Specifications

Feature	Detail
Model Number	BH-X01
Product Dimensions	8 x 6 x 2 cm
Item Weight	110 g
Battery Type	Built-in 1000mAh Lithium Ion
Charging Time	Approximately 5 hours
Standby Time	Greater than or equal to 100 hours
Material	ABS
Alarm Type	Audible, Light Flashing, and Vibration
CO Detection Range	0-1000 ppm (as per product information)
Manufacturer	Henan Bosean Technology Corporation Limited

8. Warranty and Support

8.1 Warranty Information

This BOSEAN Carbon Monoxide Detector comes with a 12-month warranty from the date of purchase. The warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accident, unauthorized modification, or improper storage.

8.2 Customer Support

For technical support, warranty claims, or any questions regarding your device, please contact BOSEAN customer service. Refer to the product packaging or the official BOSEAN website for the most current contact information.