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BOSEAN K-100A-CO

BOSEAN K-100A-CO Carbon Monoxide Gas Detector User Manual

Model: K-100A-CO

1. Introduction

This manual provides essential information for the safe and effective operation of your BOSEAN K-100A-CO Carbon Monoxide Gas Detector. Please read this manual thoroughly before use and retain it for future reference. This device is designed for detecting carbon monoxide (CO) gas concentrations in various industrial and personal environments, providing alerts to potential hazards.



Image: Carbon Monoxide (CO) warning, illustrating its colorless, odorless nature and common sources like chemical factories, petroleum plants, and repair workshops, where it can lead to poisoning.

2. Safety Information

The BOSEAN K-100A-CO detector is designed with user safety in mind. Adhere to the following guidelines:

- Always ensure the device is fully charged before use, especially in critical environments.
- Do not attempt to open or modify the device, as this may compromise its explosion-proof rating and accuracy.
- Regularly check the device for physical damage before each use.

- Understand the alarm thresholds and respond immediately to any alerts.
- This device is designed to be explosion-proof, waterproof, and dustproof, making it suitable for demanding environments.



Image: The BOSEAN K-100A-CO gas detector shown in various challenging conditions, highlighting its explosion-proof, waterproof, and dustproof design for safe operation.

3. Product Features

The BOSEAN K-100A-CO Carbon Monoxide Gas Detector offers advanced features for reliable gas monitoring:

- **High Precision Sensor:** Equipped with an electrochemical sensor for sensitive and accurate CO detection, ensuring stability and repeatability.
- **Rapid Response:** Detects gas concentrations and alarms promptly with a response time (T) of less than 30 seconds.
- **Multiple Alarm Methods:** Features adjustable audio, visual (light), and vibration alarms to alert users when preset CO levels are reached.
- **Long Battery Life:** Integrated 1500mAh Lithium Polymer battery provides over 14 hours of continuous

operation on a single charge.

- **Durable Construction:** Made from high-quality ABS plastic, offering durability, fall resistance, and protection against water, dust, and explosions.
- **Clear LCD Display:** Features an LCD backlight design for easy readability in various lighting conditions.
- **Portable Design:** Includes a back clip for easy attachment and comes with a portable aluminum alloy suitcase for convenient transport.
- **Automatic Data Records:** Saves operation and detection data for later review and analysis.
- **Calibration Options:** Supports zero-point and span calibration for maintaining accuracy.



Image: The BOSEAN K-100A-CO gas detector highlighting its rapid 0.5-second response time and precision sensors for monitoring carbon monoxide gas.

4. Package Contents

Upon opening your BOSEAN K-100A-CO Carbon Monoxide Gas Detector package, you should find the following items:

- 1x K-100A Gas Detector (CO model)
- 1x Calibration Cap
- 1x Portable Aluminum Alloy Suitcase
- 1x Charger (USB charging cable and power adapter)
- 1x User Manual (this document)
- 1x Service Card



Image: The complete package contents for the BOSEAN K-100A gas detector, showing the device, calibration cap, portable aluminum alloy suitcase, charger, user manual, and service card.

5. Device Overview

Familiarize yourself with the main components of your BOSEAN K-100A-CO detector:



Image: A detailed diagram of the BOSEAN K-100A-CO gas detector, pointing out key components such as the alarm light, control buttons, buzzer, gas sensor, USB charging port, and back clip.

6. Setup

6.1 Initial Charging

Before first use, fully charge the device. Connect the provided USB charging cable to the detector and a power source. The battery indicator on the LCD will show charging status. A full charge typically provides over 14 hours of continuous operation.

6.2 Power On/Off

- **To Power On:** Press and hold the power button (usually the middle button) until the display illuminates.
- **To Power Off:** Press and hold the power button until the device powers down.

7. Operating Instructions

7.1 Reading the Display

The LCD screen displays the current CO concentration in Parts Per Million (PPM), battery status, and time. The backlight ensures visibility in low-light conditions.



Image: The BOSEAN K-100A-CO detector's LCD screen with its backlight feature, displaying the CO concentration and current time for easy reading.

7.2 Setting Alarm Thresholds

The device allows for custom alarm thresholds. Refer to the on-screen menu options, typically accessed via the navigation buttons, to adjust high and low alarm settings according to environmental or industry standards. This helps prevent unnecessary alarms while ensuring safety.



Image: The BOSEAN K-100A-CO detector's display showing the interface for setting custom alarm thresholds, allowing users to define specific high and low alarm points.

8. Alarms and Alerts

The BOSEAN K-100A-CO detector employs a multi-alert system to ensure you are promptly notified of hazardous CO levels:

- **Audible Alarm:** A loud sound alerts users to detected gas.
- **Visual Alarm:** Flashing lights provide a clear visual warning.
- **Vibration Alarm:** The device vibrates, offering a tactile alert, especially useful in noisy environments or when the device is clipped to clothing.
- **Low Battery Alarm:** When the battery level is low, the detector will emit a slow, short alarm approximately every minute to remind the user to recharge.



Image: Illustration of the three distinct alarm types of the BOSEAN K-100A-CO detector: visual (flashing light), audible (sound waves), and tactile (vibration pattern).



Image: The BOSEAN K-100A-CO detector showing a low battery alert on its screen, accompanied by visual, audible, and vibrational cues, indicating approximately 14 hours of battery life remaining.

9. Calibration

To ensure the highest accuracy and reliability, regular calibration of your BOSEAN K-100A-CO detector is recommended. The device supports both zero-point calibration and normal calibration functions.

- **Zero-Point Calibration:** Used to set the baseline reading in a clean air environment.
- **Span Calibration:** Used with a known concentration of calibration gas to adjust the sensor's response.

Use the provided calibration cap for precise gas entry during calibration procedures. This ensures accurate, stable, and reliable calibration results that match actual on-site values.



Image: A hand holding the BOSEAN K-100A-CO gas detector with the calibration cover attached and a gas tube inserted, demonstrating the setup for accurate calibration.

10. Maintenance

Proper maintenance ensures the longevity and accuracy of your gas detector:

- **Cleaning:** Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Storage:** Store the detector in its portable aluminum alloy suitcase in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** Recharge the battery regularly, even if not in frequent use, to maintain battery health. Avoid fully discharging the battery for extended periods.
- **Sensor Protection:** Keep the sensor area clean and free from obstructions.

11. Troubleshooting

If you encounter issues with your BOSEAN K-100A-CO detector, consider the following:

- **Device Not Powering On:** Ensure the battery is charged. Connect the charger and attempt to power on again.
- **Inaccurate Readings:** Perform a calibration as described in Section 9. Ensure the sensor area is clean.
- **No Alarm Activation:** Check alarm threshold settings. Ensure the device is not in a muted mode (if applicable).
- **Short Battery Life:** Ensure the device is fully charged. Battery performance may degrade over time; consider contacting support if significantly reduced.

For persistent issues, contact BOSEAN customer support.

12. Specifications

Brand	BOSEAN
Model	K-100A-CO
Detected Gas	Carbon Monoxide (CO)
Sensor Type	Electrochemical
Power Source	Battery Powered (Lithium Polymer)
Battery Capacity	1500mAh
Battery Life	Approx. 14+ hours continuous operation
Detection Error	≤±5% FS
Response Time (T)	<30 seconds
Alarm Methods	Audible, Visual (Light), Vibration
Material	ABS Plastic
Color	Orange
Product Dimensions	3.11"D x 2.38"W x 0.97"H
Item Weight	0.28 Pounds (4.5 ounces)
Special Features	Explosion-proof, Waterproof, Dustproof, LCD Backlight, Back Clip, Automatic Data Records

13. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the Service Card included in your package or contact BOSEAN customer service directly. Keep your purchase receipt as proof of purchase.

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