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LIAMOS 2255800084108761

User Manual: LIAMOS Multi Gas Detector (BH-4A)

Model: 2255800084108761

1. Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your LIAMOS Multi Gas Detector (BH-4A). Please read this manual thoroughly before using the device.
The LIAMOS Multi Gas Detector is a portable device designed to detect and monitor four types of gases simultaneously: Oxygen (O2), Carbon Monoxide (CO), Hydrogen Sulfide (H2S), and Combustible Gases (LEL). It features electrochemical sensors for accurate readings and multiple alarm methods for safety.

2. Package Contents

Upon opening the package, please verify that all items listed below are present and in good condition:

- 1 x LIAMOS 4-in-1 Multi Gas Detector (BH-4A)
- 1 x English User Manual
- 1 x Charging Adaptor
- 1 x USB Charging Cable
- 1 x Calibration Cover
- 1 x Metal Aluminum Box

Figure 2.1: Package Contents. This image displays all items included in the product package: the multi gas detector, user manual, charging adapter, USB cable, calibration cover, and a metal aluminum carrying case.

3. Product Overview

Familiarize yourself with the components of the LIAMOS Multi Gas Detector.

Figure 3.1: Device Components. This image highlights key parts of the gas detector: LCD Screen, Menu Buttons, 4X Sensors (CO, O2, CO, H2S), Metal Clip, LED Alarm, Micro USB Recharge port, Buzzer and Vibration Alarms, and Calibration Cap.



Figure 3.2: Alarm Features. This image illustrates the three primary alarm methods: Light alarm (top front), Buzzer alarm (bottom front), and Vibration alarm (back of the device).

4. Setup

4.1 Initial Charging

Before first use, fully charge the device. Connect the USB charging cable to the Micro USB port on the detector and the other end to the charging adaptor. Plug the adaptor into a standard power outlet. The charging indicator will show the charging status.

4.2 Powering On/Off

- To power on: Press and hold the power button () until the display illuminates.
- To power off: Press and hold the power button () until the device shuts down.

4.3 Initial Calibration

The device comes factory calibrated. For optimal accuracy, zero and span calibration options are available and can be performed in less than 30 seconds. Refer to the "Calibration" section for detailed instructions.

5. Operating Instructions

5.1 Gas Detection

Once powered on, the device will automatically begin detecting the four specified gases: Oxygen (O2), Carbon Monoxide (CO), Hydrogen Sulfide (H2S), and Combustible Gases (LEL). The current concentration of each gas will be displayed on the 2.4-inch HD screen.



Figure 5.1: Display Screen. This image shows the device's display, indicating real-time readings for LEL (combustible gas), O2 (oxygen), CO (carbon monoxide), and H2S (hydrogen sulfide).

5.2 Alarm System

The detector features adjustable visual, audible, and vibration alarms. When preset gas levels are reached, the device will activate one or more of these alarms to alert the user.

- **Sound Alarm:** An audible alert up to 80dB.
- **Light Flashing:** An LED light will flash.
- **Vibrating Alert:** The device will vibrate.
- **Screen Display:** The screen will show alarm indications.

Alarm values can be adjusted through the device's menu settings. The device also logs alarm digital time stamps.

5.3 Menu Navigation

Use the menu buttons (up arrow, power/select, down arrow) to navigate through the device's settings and options. This includes adjusting alarm thresholds, performing calibration, and reviewing logged data.

Figure 5.2: Menu Interface. This image shows the device's menu, accessible via the navigation buttons, allowing users to perform functions such as "ZERO SET" and "GAS CAL" (calibration).

6. Maintenance

6.1 Cleaning

Wipe the device regularly with a soft, damp cloth. Do not use abrasive cleaners or solvents, as they may damage the casing or screen.

6.2 Calibration

Regular calibration is crucial for maintaining the accuracy of the gas detector. The device supports zero and span calibration. Use the provided calibration cover for gas calibration procedures. Consult a qualified professional for advanced calibration or if you suspect sensor inaccuracies.

6.3 Battery Care

The device is powered by a built-in 3.7V Li-battery with a runtime of approximately 6-8 hours. Recharge the battery when the low battery indicator appears. Avoid fully discharging the battery frequently to prolong its lifespan.

6.4 Storage

Store the detector in its metal aluminum box in a cool, dry place away from direct sunlight, extreme temperatures, and corrosive substances when not in use.

7. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low battery.	Charge the device fully using the provided charging cable and adaptor.
Inaccurate gas readings.	Needs calibration; sensor contamination or damage.	Perform a calibration. If problem persists, contact customer support.
Alarms not activating.	Alarm thresholds set too high; alarm function disabled.	Check and adjust alarm settings in the menu. Ensure alarm functions are enabled.
Short battery life.	Battery degradation; frequent alarm activations.	Ensure full charge before use. If battery life significantly decreases, battery replacement may be needed (contact support).

8. Technical Specifications

Feature	Specification
Gas Types Detected	Oxygen (O2), Carbon Monoxide (CO), Hydrogen Sulfide (H2S), Combustible Gas (LEL)
O2 Measurement Range	0 ~ 30% vol

Feature	Specification
CO Measurement Range	0 ~ 999 umo/mol (ppm)
H2S Measurement Range	0 ~ 100 umo/mol (ppm)
LEL Measurement Range	0 ~ 100% LEL
Resolution	0.1% vol (O2), 1 umo/mol (ppm) (CO/H2S), 1% LEL (EX)
Alarm Settings	Adjustable Low/High alarm thresholds
Operating Temperature	-20°C to 50°C (except LEL is 0°C to 40°C)
Operating Humidity	<95% RH (no dew)
Display	2.4 inch HD display
Power Source	3.7V Li-battery (Built-in)
Battery Runtime	Approx. 6-8 hours
Product Net Weight	400g (with battery)
Dimensions (L⊗W⊗H)	145mm ⊗ 69mm ⊗ 28mm
Model Number	2255800084108761
Manufacturer	LIAMOS
Country of Origin	China

9. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase documentation or visit the official LIAMOS website. Keep your purchase receipt as proof of purchase for warranty claims.
The product is designed to be robust, waterproof, dust-proof, and explosion-proof, exceeding Exib IIB T3 Gb standards. However, proper handling and maintenance are essential for its longevity and performance.

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