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BOSEAN BH-4S

BOSEAN BH-4S Multi-Gas Detector User Manual

Model: BH-4S

1. INTRODUCTION

The BOSEAN BH-4S is a sophisticated portable multi-gas detector designed for accurate and reliable monitoring of four common gases: Hydrogen Sulfide (H₂S), Oxygen (O₂), Carbon Monoxide (CO), and combustible gases (LEL). This device is equipped with a vibrant 2.4-inch LCD color screen for easy data readability, even in low-light conditions, thanks to its backlight function. It features multiple alarm methods to ensure user safety and is built with durability in mind for various industrial applications.

2. PACKAGE CONTENTS

Upon opening your BOSEAN BH-4S Multi-Gas Detector package, please verify that all the following items are included:

- 1 x BH-4S Multi-Gas Detector
- 1 x Calibration Cover
- 1 x Lanyard
- 1 x Packing Box
- 1 x Charger
- 1 x User Manual
- 1 x Warranty Card



Image: All items included in the BOSEAN BH-4S Multi-Gas Detector package.

3. SETUP

3.1 Initial Charging

Before first use, fully charge the BH-4S detector. Connect the provided charger to the device's charging port. The 1800mAh lithium-ion battery allows for approximately 10 hours of continuous operation on a full charge. A low battery indicator will alert the user when charging is required.

3.2 Powering On/Off

To power on the device, press and hold the power button located on the front panel until the display illuminates. To power off, press and hold the power button again until the device shuts down.





Image: The BOSEAN BH-4S Multi-Gas Detector, ready for setup and operation.

4. OPERATING INSTRUCTIONS

4.1 Display Overview

The BH-4S features a 2.4-inch LCD color screen that displays real-time monitoring data for H₂S, O₂, CO, and LEL. The screen includes a backlight for visibility in various lighting conditions. Information such as gas concentrations, battery status, and date/time are clearly presented.

2.4 inches LCD color screen backlight design



Image: The clear 2.4-inch LCD color screen of the BH-4S with backlight.

4.2 Gas Detection

The detector continuously monitors the levels of H₂S, O₂, CO, and LEL using sensitive and accurate industrial sensors. The current concentration of each gas is displayed on the screen in real-time.

INDUSTRIAL SENSORS

Sensitive & Accurate



Image: Illustration of the industrial sensors detecting various gases.

4.3 Alarm Methods

The BH-4S is equipped with four distinct alarm methods to alert users when preset gas levels are reached:

- **Audible Alarm:** A loud sound to draw immediate attention.
- **Visual Alarm:** Flashing lights for clear visibility.
- **Light Alarm:** Bright indicator lights.
- **Vibration Alarm:** Tactile feedback for noisy environments or discreet alerts.

Alarm thresholds are adjustable to suit specific safety requirements.

FOUR ALARM METHODS



Image: The four alarm methods of the BH-4S detector.

4.4 Data Storage and Logging

The device has built-in storage capable of saving up to 500 alarm records. It also supports curve logging, allowing users to view a trend chart of dose rate and cumulative dose over a period of time. This data is retained even after power failure.

CURVE LOGGING



Image: Curve logging feature displaying gas concentration trends.

4.5 Calibration

For accurate and stable readings, regular calibration is essential. Use the provided calibration cover to perform calibration procedures as detailed in the full user manual. This ensures the detector's measurements match actual values on site.



Image: The calibration cover attached to the BH-4S for accurate sensor calibration.

4.6 Portability

The BH-4S is designed for easy portability. It includes a backclip that can be attached to clothing or belts, and a lanyard for hanging around the neck or on a wall, ensuring the device is always accessible and secure.

Used in conjunction with Gas Sampling Pump



Image: The backclip feature for convenient carrying.

5. MAINTENANCE

To ensure the longevity and optimal performance of your BOSEAN BH-4S detector, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Battery Care:** Recharge the battery when the low battery indicator appears. Avoid fully discharging the battery frequently to prolong its lifespan.
- **Storage:** Store the detector in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Durability:** The device is made of high-quality ABS plastic, making it waterproof, dustproof, and fall-resistant. While durable, avoid unnecessary impacts or exposure to harsh conditions beyond its specifications.



Image: The durable construction of the BH-4S, highlighting its waterproof, shatter-resistant, and dustproof features.

6. TROUBLESHOOTING

If you encounter issues with your BOSEAN BH-4S detector, consider the following general troubleshooting steps:

- **Device Not Powering On:** Ensure the battery is sufficiently charged. Connect the charger and attempt to power on again.
- **Inaccurate Readings:** Perform a calibration using the provided calibration cover. Ensure the sensors are clean and unobstructed.
- **Alarm Not Sounding:** Check the alarm settings in the device menu to ensure audible/visual alarms are enabled and volume is set appropriately.
- **Screen Issues:** If the screen is dim, ensure the backlight is enabled. If the screen is unresponsive, try restarting the device.

For more detailed troubleshooting steps and specific error codes, please refer to the comprehensive user manual included in your package.

7. SPECIFICATIONS

Manufacturer	BAOSHIAN Electronic
Model Number	BH-4S
Product Dimensions	14.5 x 6.9 x 2.8 cm
Item Weight	400 g
Batteries	1 Lithium Ion battery (included)
Battery Cell Type	Lithium Ion
Power Source	Battery Powered
Voltage	3.7 Volts
Material	ABS
Style	Portable
Alarm Type	Visual, Audible, Vibration, Light
Operating Humidity	95%
Upper Temperature Rating	55 Degrees Celsius
Sensor Type	Electrochemical



Image: Dimensions of the BOSEAN BH-4S Multi-Gas Detector.

8. WARRANTY AND SUPPORT

8.1 Warranty Information

A warranty card is included with your BOSEAN BH-4S Multi-Gas Detector. Please refer to this card for detailed information regarding the product's warranty period, terms, and conditions. Retain your proof of purchase for any warranty claims.

8.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact the manufacturer's customer support. Contact details are typically provided in the full user manual or on the manufacturer's official website.