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› Guard-101 Gas Detector User Manual

TOPTES Guard-101

TOPTES Guard-101 4-in-1 Gas Detector User Manual

Model: Guard-101 | Brand: TOPTES

1. INTRODUCTION

The TOPTES Guard-101 is a robust and reliable 4-in-1 gas detector designed for the simultaneous monitoring of Hydrogen Sulfide (H₂S), Carbon Monoxide (CO), Combustible Gas (LEL), and Oxygen (O₂) concentrations. This device provides rapid detection and features multiple alarm modes to ensure user safety in various environments. Its durable, explosion-proof design and long battery life make it suitable for industrial, mining, agricultural, emergency response, and domestic applications.



Image 1.1: The Guard-101 Gas Detector shown with its charging cable, back clip, and protective case.

2. PACKAGE CONTENTS

Upon unpacking, please verify that all the following items are included in your package:

- 1x Guard-101 4-in-1 Gas Detector
- 1x Packaging Box
- 1x User Manual (this document)
- 1x Charging Cable
- 1x Standard Gas Hood

Multi-Alert System, Protecting You All the Time



Image 2.1: All components included in the Guard-101 Gas Detector package.

3. PRODUCT FEATURES

- **4-in-1 Gas Detection:** Simultaneously monitors H2S, CO, LEL (combustible gases), and O2 levels.
- **Rapid Response:** Detects gas concentrations within 0.5 seconds, providing immediate alerts.
- **Triple Alarm System:** Features visual (LED light), audible (sound), and tactile (vibration) alarms that activate when gas concentrations exceed preset thresholds. Alarms continue until gas levels return to normal.
- **Long Battery Life:** Equipped with a 2000mAh battery, providing up to 14 hours of continuous operation. A low battery alert activates when the battery voltage drops to 10%, offering 4 hours of remaining operation with sound, light, and vibration alerts.
- **Durable Construction:** Made from high-strength ABS engineering plastic, ensuring the device is waterproof, dustproof, and explosion-proof.
- **Portable Design:** Includes a back clip for easy attachment to clothing or gear, facilitating hands-free operation in the workplace.
- **Data Storage:** Features an alarm record storage function, allowing users to review past monitoring data and alarm events.
- **Password Protection:** Prevents accidental operation or unauthorized changes to settings. The initial password is "69".
- **Professional Certification:** Passed rigorous safety tests by internationally authorized institutions, ensuring high reliability and accuracy.



WARNING CARBON MONOXIDE



Carbon monoxide is a colorless, odorless, and tasteless gas, typically generated by incomplete combustion of organic matter. It is a common toxic gas that can lead to carbon monoxide poisoning when exposed to high concentrations.

Image 3.1: The Guard-101 features visual, audible, and tactile alarm types for comprehensive safety alerts.

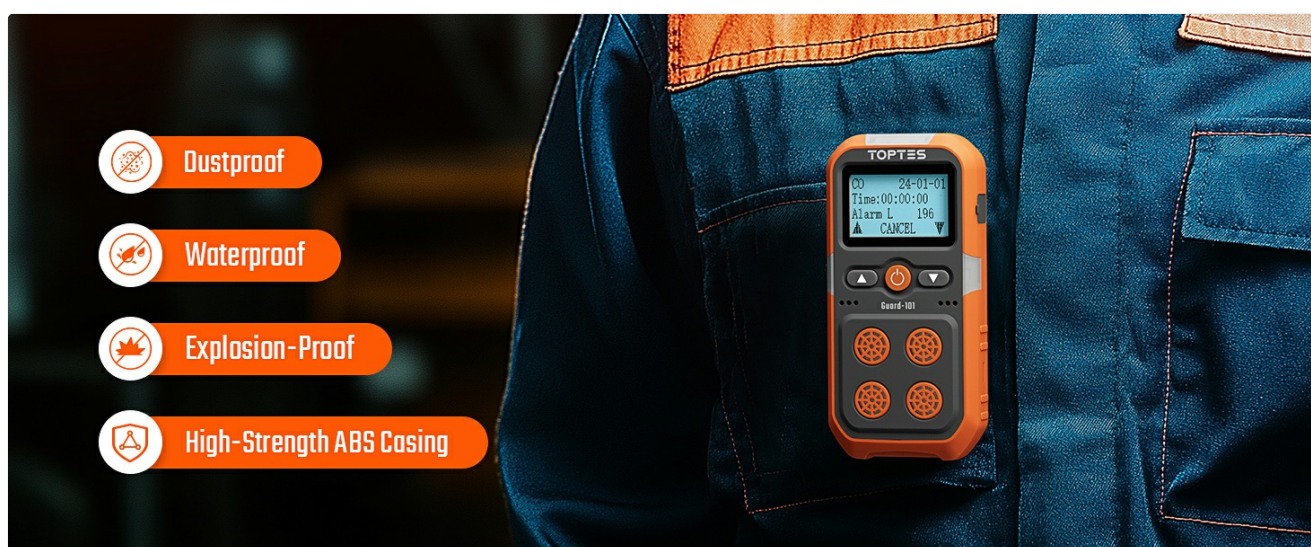


Image 3.2: The device provides a low battery alert to ensure continuous monitoring and safety.

4. SAFETY INFORMATION

The Guard-101 is designed to enhance safety by detecting hazardous gas levels. However, it is crucial to understand the risks associated with the gases it monitors and to follow all safety protocols relevant to your working environment. Always ensure proper ventilation and use personal protective equipment as required.

4.1 Gas-Specific Warnings

- **Carbon Monoxide (CO):** A colorless, odorless, and tasteless gas produced by incomplete combustion. High concentrations can lead to carbon monoxide poisoning.
- **Hydrogen Sulfide (H₂S):** A toxic gas with a rotten egg smell, found in oil drilling, water treatment, and fertilizer production. High concentrations are not only toxic but also corrosive.
- **Oxygen (O₂):** Essential for life. Both excessively low and high oxygen concentrations can be life-threatening. Low levels can cause suffocation, while high levels increase fire risk.
- **Combustible Gases (LEL):** The Guard-101 detects over 10 types of combustible gases, including propane, natural gas, ethylene, methane, butane, LPG, and gasoline. These gases pose explosion and fire hazards.



WARNING OXYGEN



Oxygen is essential for sustaining life, but both too low and too high oxygen concentrations can be life-threatening. Low oxygen levels can lead to suffocation, while high oxygen levels can increase the risk of fire.

Image 4.1: Carbon Monoxide (CO) warning and common environments where it is found.

TOPTES Guard-101

What You Will Get

Your purchase includes

- 1x Guard-101 Gas Detector
- 1x Packaging Box
- 1x User Manual
- 1x Charging Cable
- 1x Standard Gas Hood



Image 4.2: Hydrogen Sulfide (H₂S) warning and common environments where it is found.



Low Battery Alert for Continuous Safety

4 hours of battery life with sound, light, and vibration alerts when battery voltage drops to 10%



Image 4.3: Oxygen (O₂) warning and common environments where it is found.

5. SETUP

5.1 Initial Charging

Before first use, fully charge the Guard-101 gas detector. Connect the provided charging cable to the device's charging port and a suitable USB power adapter (not included). The charging indicator on the device will show charging status. A full charge typically takes several hours.

5.2 Power On/Off

1. **Power On:** Press and hold the power button (usually marked with an ⏻ symbol) for a few seconds until the display illuminates and the device performs a self-test.
2. **Power Off:** Press and hold the power button until the device prompts you to confirm shutdown. Follow the on-screen instructions to power off.

5.3 Password Protection

The device features password protection to prevent unauthorized access or accidental changes to settings. The initial password is "69". It is recommended to change this password after initial setup for enhanced security.

6. OPERATION

6.1 Gas Detection

Once powered on, the Guard-101 will automatically begin monitoring the four specified gases. The current concentration levels for H₂S, CO, LEL, and O₂ will be displayed on the screen. Ensure the sensor inlets are not obstructed for accurate readings.

6.2 Alarm Modes

When gas concentrations exceed the preset alarm thresholds, the device will activate its triple alarm system:

- **Visual Alarm:** LED lights on the device will flash.
- **Audible Alarm:** A loud sound will be emitted.
- **Tactile Alarm:** The device will vibrate.

The alarms will continue until the gas concentration returns to a safe level. Do not ignore any alarm. Immediately follow your workplace's safety protocols upon alarm activation.

6.3 Data Record Function

The Guard-101 stores alarm records, allowing you to review past events. Navigate through the device's menu using the arrow buttons to access the alarm record history. This feature is useful for incident analysis and compliance.

7. MAINTENANCE

7.1 Cleaning

Regularly clean the exterior of the device with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the casing or sensors. Ensure the sensor inlets are free from dust and debris.

7.2 Calibration

For optimal accuracy and reliability, periodic calibration of the gas sensors is recommended. Refer to the detailed instructions in the full user manual or contact TOPTES customer support for information on calibration procedures and service intervals.

7.3 Storage

When not in use, store the Guard-101 in its protective packaging box in a cool, dry place, away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

If you encounter issues with your Guard-101 gas detector, consider the following common scenarios:

- **Device not powering on:** Ensure the battery is fully charged. If the issue persists, try charging with a different USB cable or adapter.
- **Inaccurate readings or constant alarms:** Ensure the sensor inlets are clean and unobstructed. The device may require calibration if readings are consistently off.
- **Oxygen (O2) reading at 0% or significantly low/high:** This could indicate a sensor malfunction. If repeated resets do not resolve the issue, the device may be faulty.
- **Unable to access settings:** Ensure you are entering the correct password. The initial password is "69".

For persistent problems or issues not covered here, please contact TOPTES customer support for assistance.

9. SPECIFICATIONS

Feature	Detail
Model Number	Guard-101
Gases Detected	H2S, CO, LEL, O2
Response Time	0.5 seconds
Battery Life	Up to 14 hours
Battery Capacity	2000mAh (Lithium Ion)
Alarm Modes	Visual (LED), Audible, Tactile (Vibration)
Material	High-strength ABS Engineering Plastic
Protection Features	Waterproof, Dustproof, Explosion-Proof
Item Weight	1.32 pounds (0.6 Kilograms)
Package Dimensions	8.46 x 6.26 x 3.15 inches
Color	Orange
Power Source	Battery Powered
Included Components	Detector, Packaging Box, User Manual, Charging Cable, Standard Gas Hood

10. WARRANTY AND SUPPORT

10.1 Warranty Information

TOPTES provides a **36-month after-sale service** for the Guard-101 Gas Detector. This warranty covers manufacturing defects and ensures the product meets its specified performance standards under normal use. Please retain your proof of purchase for warranty claims.

10.2 Customer Support

For technical assistance, troubleshooting, warranty claims, or any other inquiries regarding your Guard-101 Gas Detector, please contact TOPTES customer support. You can find contact information and additional resources on the official TOPTES website or through the retailer where you purchased the product.

Visit the [TOPTES Store](#) for more information and support.