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› YinZhiBoo RV Propane Gas Alarm Model RH100 User Manual

YinZhiBoo RH100

YinZhiBoo RV Propane Gas Alarm Model RH100 User Manual

Digital LP Gas Detector for RVs, Trailers, and Motorcoaches

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your YinZhiBoo RV Propane Gas Alarm, Model RH100. This device is designed to detect propane gas leaks in recreational vehicles, trailers, and motorcoaches, providing an audible alarm and digital display to alert occupants to potential hazards. Please read this manual thoroughly before installation and use to ensure safe and effective operation.

RV PROPANE GAS ALARM



Image 1.1: The YinZhiBoo RV Propane Gas Alarm, Model RH100, designed for 12V DC systems, featuring an 85dB alarm, a test button for weekly checks, and a mute button to silence nuisance alarms. Shown installed in an RV environment.

2. SAFETY INFORMATION

WARNING: This detector will NOT operate without power. Ensure continuous 12V DC power supply for proper function.

- This device is intended for the detection of propane gas only. It is not designed to detect carbon monoxide, smoke, or other gases.
- Do not paint the unit. Paint can clog the sensor openings and interfere with proper operation.
- Regular testing is crucial to ensure the detector is functioning correctly. Refer to the 'Testing' section for instructions.
- In case of an alarm, immediately ventilate the area, turn off propane supply, and investigate the source of the leak. Do not re-enter the area until the gas has dissipated and the leak is resolved.
- The unit has a limited operational lifetime of approximately 6 years. Replace the unit after this period or if it malfunctions.

3. PACKAGE CONTENTS

- YinZhiBoo RV Propane Gas Alarm (Model RH100)
- Mounting Screws
- User Manual (this document)



Image 3.1: The YinZhiBoo RV Propane Gas Alarm, Model RH100, shown with its packaging. The unit features a large digital display, auto-calibration, and an 85dB alarm.

4. PRODUCT OVERVIEW

The YinZhiBoo RV Propane Gas Alarm is equipped with a high-sensitivity semiconductor sensor for accurate propane detection. It features a digital display for real-time concentration readings and an audible alarm for immediate alerts.

Components:

- **Digital Display:** Shows real-time propane concentration in %LEL (Lower Explosive Limit).
- **Power Indicator (Green LED):** Illuminates when the unit is powered on.
- **Alarm Indicator (Red LED):** Flashes during an alarm condition.
- **Test/Mute Button:** Used to test the alarm function and silence nuisance alarms.

- **Audible Alarm Speaker:** Emits an 85 dB alarm sound.



Image 4.1: A detailed view of the YinZhiBoo RV Propane Gas Alarm, highlighting its digital display, an estimated 5-year operational lifespan, and high temperature resistance from -31°F to 150°F.

5. SPECIFICATIONS

Feature	Specification
Model	RH100
Dimensions (W x H x D)	3.5 in x 2.48 in x 0.85 in (89 mm x 63.5 mm x 22 mm)
Current Draw (Normal)	45 mA at DC 12V
Current Draw (Alarm)	170 mA at DC 12V
Unit Lifetime	6 years (powered operation)

Feature	Specification
Audible Output	85 dB at 10 feet
Propane Detection Threshold	800 ppm
Operational Temperature	-31 °F to 150 °F (-35 °C to 66 °C)
Power Supply	DC 12V
Operational Voltage	DC 9-24V
Item Weight	3.52 ounces



Image 5.1: The physical dimensions of the YinZhiBoo RV Propane Gas Alarm, measuring 3.5 inches in width, 2.48 inches in height, and 0.85 inches in depth.

6. INSTALLATION

6.1 Choosing an Installation Location:

Propane gas is heavier than air and tends to settle at lower levels. Therefore, the detector should be mounted low to the floor.

- Mount the detector 4 to 20 inches (10-50 cm) off the floor.
- Avoid mounting near windows, doors, or vents where drafts could dilute gas concentrations.
- Do not mount near cooking appliances, heating vents, or in direct sunlight, as extreme temperatures can affect sensor performance.
- Ensure the location is free from obstructions that could block the alarm sound or digital display.



Image 6.1: Recommended installation position for the YinZhiBoo RV Propane Gas Alarm, showing it mounted 4-20 inches off the floor in an RV interior.

6.2 Wiring Instructions:

1. Ensure all power to the RV's 12V DC system is turned off before beginning installation.
2. Connect the red wire from the detector to a fused 12V DC positive (+) power source.
3. Connect the black wire from the detector to a 12V DC negative (-) ground.
4. Ensure all connections are secure and properly insulated.

6.3 Mounting the Detector:

1. Once wiring is complete, use the provided mounting screws to secure the detector to the chosen wall location.
2. Do not overtighten screws.

7. OPERATION

7.1 Initial Power-Up:

After installation and restoring 12V DC power, the detector will perform a self-test. The digital display will show a countdown, and the green power indicator will illuminate. The unit will then enter normal monitoring mode.

7.2 Normal Operation:

In normal operation, the green power indicator will be steadily lit. The digital display will show '0' or a low number, indicating no detectable propane gas. The unit continuously monitors the air for propane gas.

7.3 Alarm Condition:

If propane gas is detected at or above the 800 ppm threshold, the unit will activate an alarm:

- The red alarm indicator will flash.
- An 85 dB audible alarm will sound (Di-Di-Di).
- The digital display will show the detected propane concentration in %LEL.

HIGH DECIBEL AUDIBLE ALARM

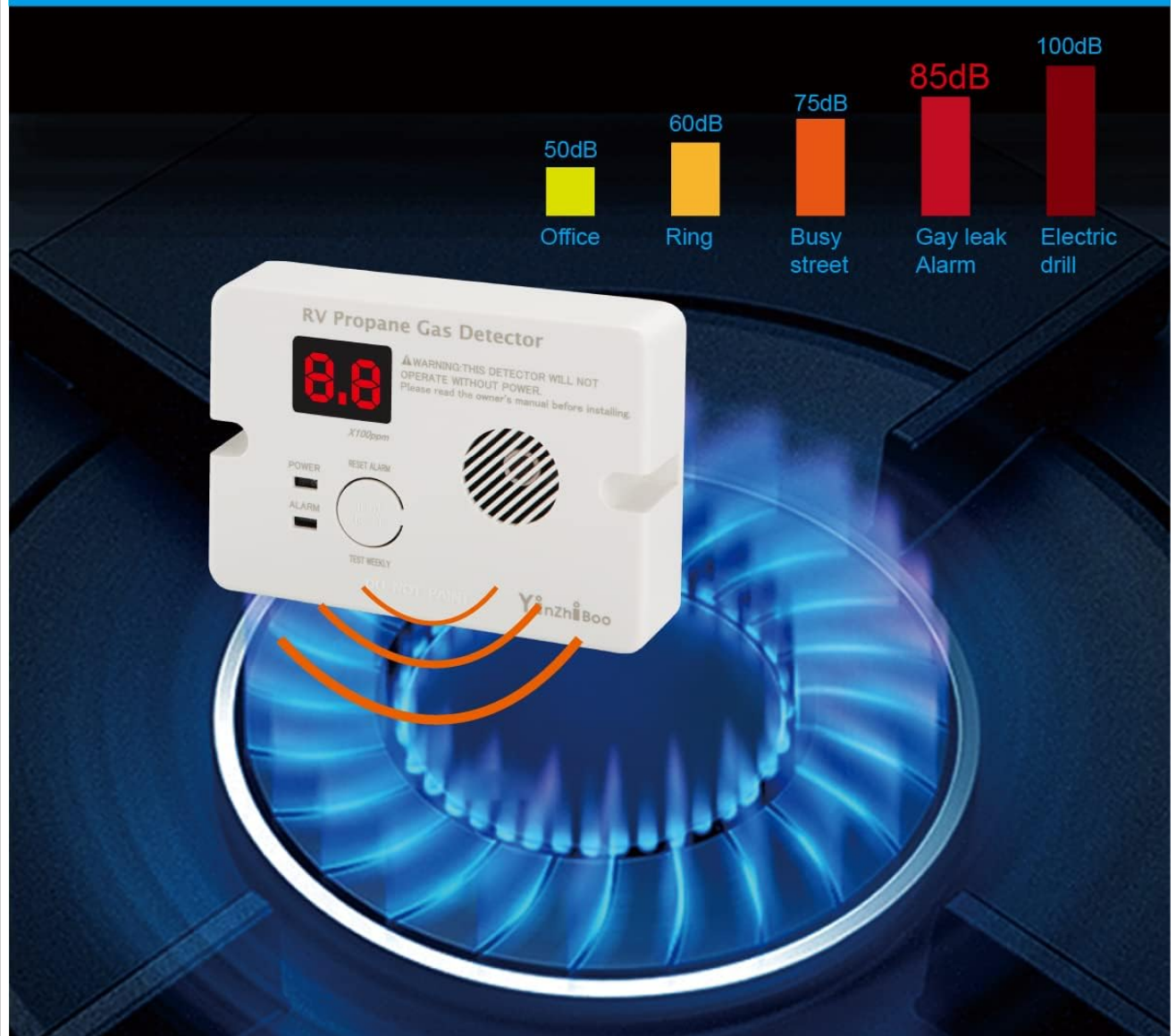


Image 7.1: The YinZhiBoo RV Propane Gas Alarm demonstrating its 85dB alarm output, shown alongside a decibel comparison chart indicating its loudness relative to other common sounds.

7.4 Responding to an Alarm:

1. **Remain Calm:** Do not panic.
2. **Ventilate:** Open all windows and doors to ventilate the RV.
3. **Turn Off Propane:** Immediately turn off the main propane supply valve.
4. **Evacuate:** If the alarm persists or the gas concentration remains high, evacuate all occupants from the RV.
5. **Investigate:** Once the area is clear and ventilated, carefully investigate the source of the leak. Do not use open flames or electrical switches during investigation.
6. **Reset/Mute:** Press the 'Test/Mute' button to silence the alarm. The unit will continue to monitor. If the gas concentration drops below the threshold, the alarm will cease.

8. TESTING

It is recommended to test the alarm weekly to ensure proper function.

1. Press and hold the 'Test/Mute' button for approximately 3 seconds.
2. The alarm will sound, and the red alarm indicator will flash.
3. Release the button. The alarm should stop, and the unit will return to normal monitoring mode.
4. If the alarm does not sound during the test, refer to the 'Troubleshooting' section.

9. MAINTENANCE

- **Cleaning:** Gently wipe the exterior of the detector with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Do not spray cleaning agents directly onto the unit.
- **Sensor Care:** Do not obstruct the sensor openings. Avoid painting over the unit.
- **Replacement:** The sensor has a limited lifespan. Replace the unit after 6 years of powered operation to ensure continued accuracy and reliability.

10. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power/Unit not turning on	No 12V DC power supply; Incorrect wiring; Blown fuse.	Check 12V DC power source; Verify wiring connections; Check and replace fuse if necessary.
Alarm sounds without apparent gas leak	False alarm due to strong fumes (e.g., cleaning products, aerosols); Sensor malfunction.	Ventilate the area thoroughly. If alarm persists, press 'Mute' and observe. If it continues to alarm without gas, contact support.
Test button does not activate alarm	Unit malfunction; Insufficient power.	Ensure unit is powered. If still no response, the unit may be faulty and requires replacement.
Digital display shows error code or erratic readings	Sensor malfunction; End of unit life.	The unit may need replacement. Contact customer support for further assistance.

11. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the product packaging or contact YinZhiBoo customer service directly. Keep your purchase receipt as proof of purchase.

Manufacturer: ShenZhenShi RuoHui KeJi YouXian GongSi

Model Number: RH100

UPC: 798107691251

