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› PANGAEA RV Carbon Monoxide & Propane Dual Gas Detector PRC2000 User Manual

PANGAEA PRC2000

PANGAEA RV Carbon Monoxide & Propane Dual Gas Detector User Manual

Model: PRC2000

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1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your PANGAEA RV Carbon Monoxide (CO) and Propane (LPG) Dual Gas Detector, Model PRC2000. This device is designed to enhance safety in recreational vehicles by continuously monitoring for the presence of both carbon monoxide and propane gases. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Figure 1: PANGAEA RV Carbon Monoxide & Propane Dual Gas Detector (PRC2000)

2. IMPORTANT SAFETY INFORMATION

WARNING: Failure to follow these instructions may result in property damage, serious injury, or death.

- This detector is designed for use in recreational vehicles (RVs) only.
- Do not paint the detector. Paint can interfere with the sensor's ability to detect gases.
- The detector has a limited lifespan. Replace the unit after 60 months (5 years) from the date of retail sale.
- Regularly test the detector using the TEST/RESET button.
- In case of an alarm, immediately move to fresh air and contact emergency services if necessary.
- Ensure proper ventilation in your RV, especially when using propane appliances.
- This device is 12V DC powered. Ensure correct wiring to avoid damage or malfunction.



Figure 2: UL & CE Compliant for Safety Assurance

3. PRODUCT FEATURES

The PANGAEA PRC2000 detector incorporates several features for reliable gas detection and user convenience:

- **Dual Gas Detection:** Detects both Carbon Monoxide (CO) and Propane (LPG) gases.
- **Informative LCD Screen:** Displays real-time gas concentration readings (PPM) and device status (Alarm, Fault).
- **Multi-Color LED Indicator:** Provides visual alerts for different conditions (Green: Normal, Yellow: Fault, Red: Alarm).
- **85dB Loud Alarm:** An audible alarm alerts occupants to dangerous gas levels.
- **Easy Reset/Test Button:** Allows for quick testing of the alarm's functionality and resetting of alarms.
- **Hard-Wired 12V DC Power:** Designed for direct connection to your RV's 12-volt power system.
- **UL & CE Compliant:** Meets UL1484, UL2034, and CE safety standards.

Digital RV Dual Gas Alarm Detects CO & Propane



Figure 3: Dual Gas Detection Capability

4. INSTALLATION

4.1 Package Contents

- PANGAEA RV Carbon Monoxide & Propane Dual Gas Detector (PRC2000)
- Mounting Screws
- User Manual (this document)

4.2 Choosing a Location

Select a location that is:

- Within 18 inches of the floor for optimal propane detection.
- At least 6 inches from any opening window or door.
- Away from direct sunlight, heat sources, or areas with high airflow (e.g., vents).
- Not obstructed by furniture or curtains.
- Accessible for testing and viewing the display.

Avoid installing in areas where the temperature may fall below 32°F (0°C) or exceed 120°F (49°C).

4.3 Mounting the Detector

1. Turn off all 12V DC power to your RV before beginning installation.
2. Carefully remove the existing detector (if replacing one) or prepare the mounting surface. The PRC2000 is designed for flush mounting.
3. Refer to the dimensions provided to ensure proper fit. The unit measures approximately 6-3/8" (162mm) wide, 2-7/8" (73mm) high, and 1-7/8" (48mm) deep.
4. Connect the detector's wires to the RV's 12V DC power supply. The red wire is positive (+), and the black wire is negative (-). Ensure a secure connection.
5. Mount the detector using the provided screws.
6. Restore 12V DC power to your RV. The detector will perform a self-test.

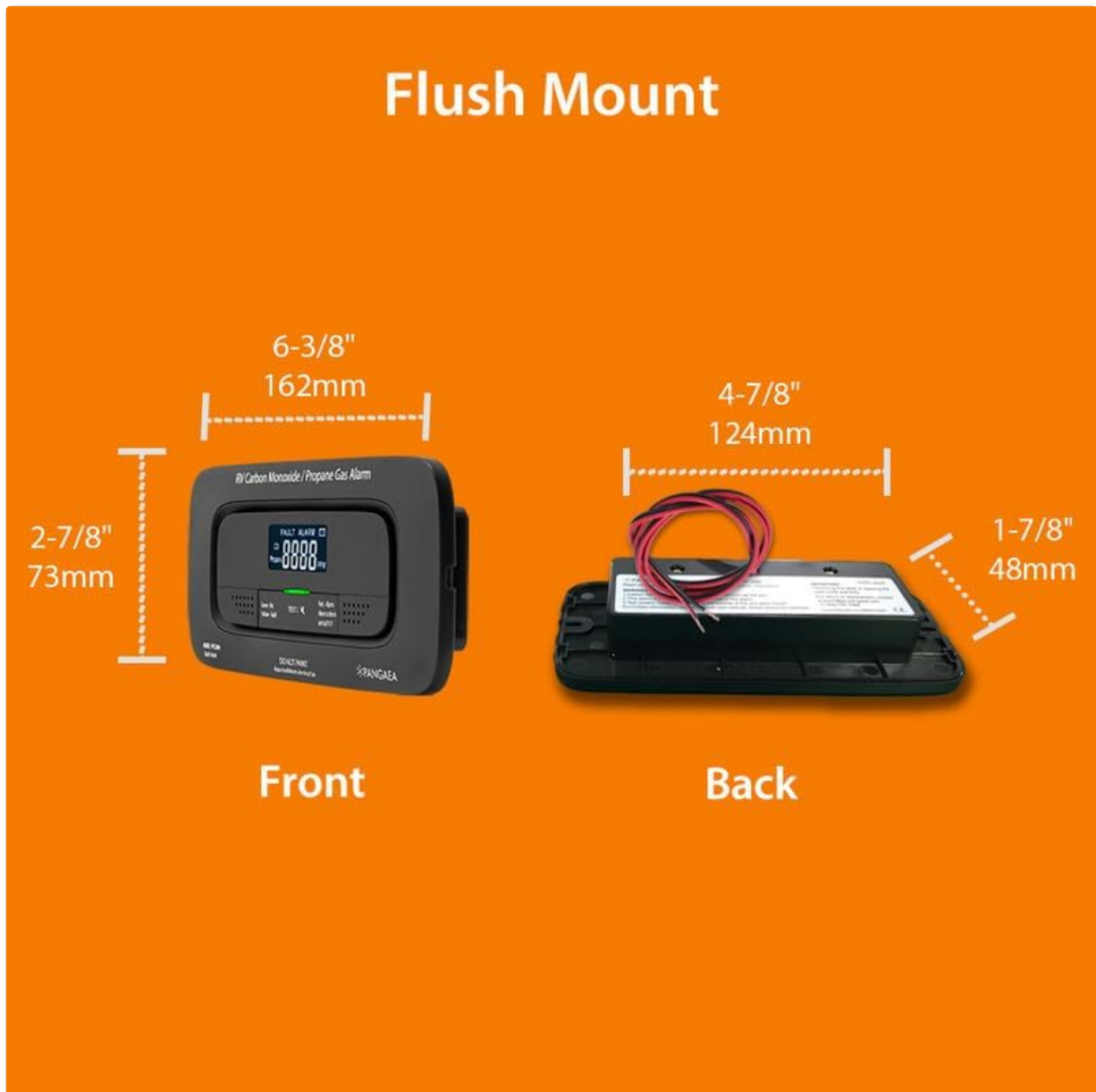


Figure 4: Flush Mount Dimensions



Figure 5: 12V DC Power Connection

5. OPERATION

5.1 Power-Up and Self-Test

Upon initial power-up or after a power interruption, the detector will perform a self-test sequence. During this time, the LCD display will illuminate, and the alarm may briefly sound. Once the self-test is complete, the green LED indicator will light up, indicating normal operation.

5.2 Normal Operation

During normal operation, the green LED indicator will be illuminated. The LCD screen typically remains off to conserve power unless a gas concentration is detected or the TEST/RESET button is pressed. If gas is detected, the LCD will display the concentration in PPM (Parts Per Million).



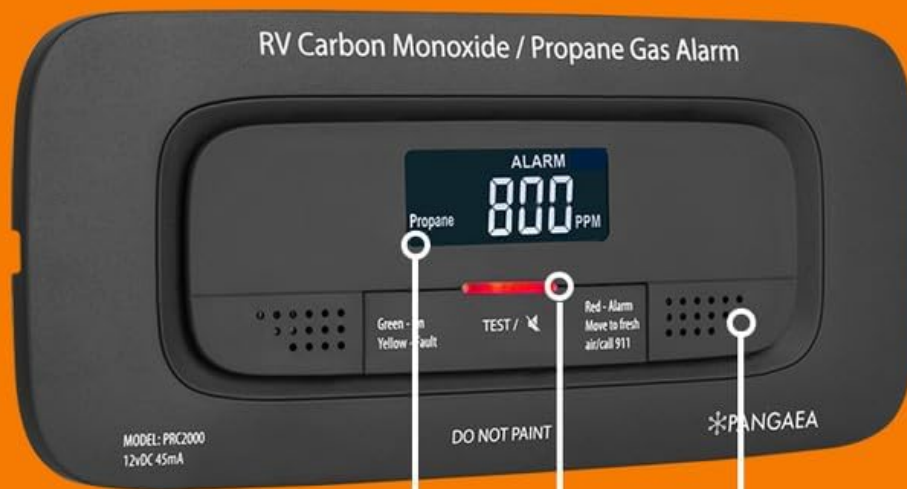
Figure 6: LCD Display during operation or fault

5.3 Alarm Conditions and Indicators

The detector provides both visual and audible alerts:

- **Green LED:** Indicates normal operation.
- **Yellow LED:** Indicates a fault condition. Refer to the Troubleshooting section.
- **Red LED & 85dB Alarm:** Indicates a dangerous level of CO or Propane gas detected. The LCD will display the gas concentration.

Triple Alarm Indicators



Realtime CO/Propane
Concentration Level

85dB Audible Alarm

Multi-color LED light

Figure 7: Triple Alarm Indicators (LCD, LED, Audible)

ACTION IN CASE OF ALARM:

1. Immediately move to fresh air.
2. Do not re-enter the RV until the source of the gas leak has been identified and corrected, and the area has been thoroughly ventilated.
3. Contact emergency services or a qualified technician if you suspect a serious gas leak.

5.4 TEST/RESET Button

Press and hold the TEST/RESET button to:

- **Test the Alarm:** The alarm will sound, and the LEDs will cycle, confirming the unit is functional.
- **Reset the Alarm:** If an alarm is sounding, pressing this button will silence it and allow the unit to re-evaluate gas levels. If gas is still present, the alarm will reactivate.

6. MAINTENANCE

6.1 Regular Testing

Test the detector weekly by pressing the TEST/RESET button. This verifies the alarm and indicators are working correctly.

6.2 Cleaning

Clean the exterior of the detector periodically with a soft, damp cloth. Do not use cleaning agents, solvents, or polishes, as these can damage the sensor or casing. Ensure no dust or debris obstructs the sensor openings.

6.3 Sensor Lifespan and Replacement

The gas sensor has a limited operational lifespan. The PANGAEA PRC2000 detector should be replaced **60 months (5 years)** after the date of retail sale. A fault indicator or specific message on the LCD may appear when the unit reaches its end-of-life.

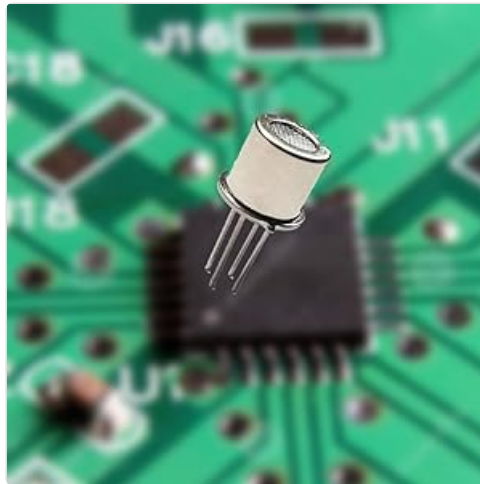


Figure 8: Internal Gas Sensor

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Detector does not power on.	No 12V DC power, incorrect wiring, blown fuse.	Check RV's 12V power supply. Verify wiring (red to +, black to -). Check RV's fuse panel.
Yellow LED illuminated / Fault message on LCD.	Internal sensor fault, end-of-life, wiring issue.	Press TEST/RESET button. If fault persists, check wiring. If unit is older than 5 years, replace it. Contact support if new and fault persists.
Red LED illuminated / Alarm sounding.	Carbon Monoxide or Propane gas detected.	Follow "ACTION IN CASE OF ALARM" steps (Section 5.3). Ventilate the area. Identify and fix the gas source.
False alarms.	Interference from strong odors (cleaners, aerosols), high humidity, sensor contamination.	Ensure proper ventilation. Avoid using strong chemicals near the detector. Clean the detector as per maintenance instructions. Relocate if persistent.
LCD screen remains off during normal operation.	This is normal behavior to conserve power.	The LCD will activate when gas is detected or the TEST/RESET button is pressed. The green LED indicates normal operation.

8. SPECIFICATIONS

Feature	Detail
Model Number	PRC2000
Power Source	12 Volts DC (Hard-Wired)
Gas Detected	Carbon Monoxide (CO), Propane (LPG)
Alarm Loudness	85dB at 10 feet
Display	Large LCD with real-time PPM readings
Indicators	Multi-color LED (Green, Yellow, Red)
Operating Temperature	32°F to 120°F (0°C to 49°C)
Dimensions (Approx.)	7.76 x 3.98 x 1.57 inches (Package)
Weight (Approx.)	6.7 ounces
Certifications	UL1484, UL2034, CE
Sensor Lifespan	5 years (60 months) from retail sale

9. WARRANTY & SUPPORT

The PANGAEA RV Carbon Monoxide & Propane Dual Gas Detector (PRC2000) typically comes with a manufacturer's warranty. Please refer to the product packaging or the official PANGAEA website for specific

warranty terms and conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact PANGAEA customer service. Contact information can usually be found on the product packaging or the manufacturer's website.

Online Resources: For additional information or to download the PDF version of this manual, please visit the product page on Amazon or the PANGAEA official website.

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