

Tadeto TE031

Tadeto RV Carbon Monoxide and Propane Gas Alarm User Manual

Model: TE031

1. INTRODUCTION

This manual provides important information regarding the installation, operation, and maintenance of your Tadeto RV Carbon Monoxide and Propane Gas Alarm. Please read this manual thoroughly before installation and use, and retain it for future reference. This device is designed to detect both carbon monoxide (CO) and propane (LPG) gas, providing an audible and visual warning in recreational vehicles, trailers, and campers.



Image 1: Front view of the Tadeto RV Carbon Monoxide and Propane Gas Alarm, showing its display and controls.

2. IMPORTANT SAFETY INFORMATION

WARNING: This device is intended for use in recreational vehicles (RVs) and similar mobile environments. It is not a substitute for proper maintenance of appliances or ventilation systems. Read and understand all instructions before use.

- Do not paint the alarm. Paint can clog the sensor openings and interfere with the alarm's ability to detect gases.
- Do not install in areas with high humidity, extreme temperatures, or excessive dust.
- Ensure proper ventilation when using gas appliances.
- Test the alarm regularly as instructed in this manual.
- In case of an alarm, immediately evacuate the area and contact emergency services.
- This alarm operates on 12V DC power. Ensure correct wiring to avoid damage or malfunction.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1x Tadeto 2-in-1 RV Gas Alarm (Carbon Monoxide & Propane)
- 1x Instruction Manual
- 1x Connector
- 2x Expansion Screws

- 2x Plastic Expansion Tubes
- 2x Velcro Strips

What You GET

- 1x Carbon Monoxide & Propane Gas Alarm
- 1x Instruction Manual
- 1x Connector
- 2x Expansion Screws
- 2x Plastic Expansion Tubes
- 2x Velcro Strips



Image 2: The package contents including the alarm unit, instruction manual, connector, screws, expansion tubes, and Velcro strips.

4. PRODUCT OVERVIEW AND FEATURES

The Tadeto RV Carbon Monoxide and Propane Gas Alarm is designed for comprehensive gas detection in your RV. Key features include:

- **2-in-1 Detection:** Simultaneously detects Carbon Monoxide (CO) and Propane (LPG) gas.
- **High Sensitivity Sensors:** Equipped with high-sensitivity semiconductors and electrochemical

sensors for accurate detection.

- **Light and Sound Alarm:** Emits an 85-decibel audible alarm and a flashing red indicator light when gas levels exceed safe limits.
- **Large Screen Display:** Provides clear, easy-to-read numbers and characters for real-time concentration updates.
- **Backlight Function:** Ensures readability in various lighting conditions.
- **Unit Conversion:** Allows switching between LEL and PPM units for propane gas.
- **Mute Button:** For silencing the audible alarm when necessary.



Image 3: Detailed diagram highlighting the LCD display, power indicator, CO detection, propane detection, backlight ON/OFF button, unit switching, and buzzers ON/OFF button.



Image 4: The alarm unit displayed with icons representing its key features: CO & Propane Gas Alarm, Sound & Light Alarm, LEL/PPM Unit Conversion, and Backlight Function.

5. INSTALLATION

5.1 Choosing an Installation Location

For optimal performance, install the alarm in a central location within your RV, away from direct heat sources, vents, windows, and areas prone to high humidity or dust. Ensure it is mounted at a height where both CO and propane can be detected effectively. Propane is heavier than air and tends to settle low, while CO mixes with air. A good compromise is typically 18-24 inches from the floor.

5.2 Wiring Instructions (12V DC Hardwired)

The alarm operates on a 12V DC power supply. Use the provided connector for a secure and safe connection.

1. **Strip the Wires:** Carefully strip approximately 1/2 inch (12mm) of insulation from the ends of the alarm's power wires and your RV's 12V DC power wires.
2. **Lift Connector Handle:** Lift the orange handle on the provided connector upwards.
3. **Connect Wires:** Insert the stripped red wire from the alarm into the "+" terminal of the connector and the stripped black wire into the "-" terminal. Similarly, connect your RV's 12V DC positive wire to the "+" terminal and the negative wire to the "-" terminal.
4. **Secure Connection:** Push the orange handle down to secure the wires firmly in place.



Image 5: Step-by-step visual guide for connecting the alarm's wires to a 12V DC power source using the provided connector, also showing screw and Velcro mounting options.

5.3 Mounting Options

You can choose between screw mounting or Velcro mounting.

Screw Mounting:

1. **Install Screws:** Mark the desired mounting location. Drill pilot holes and insert the expansion tubes. Install the screws, leaving a small gap (approx. 3.5 inches / 89mm apart) for the alarm to hang.
2. **Connect Wiring:** Complete the wiring as described in Section 5.2.
3. **Mount Alarm:** Align the alarm's mounting slots with the installed screws and slide the alarm down to secure it.

Velcro Mounting:

1. **Prepare Surface:** Ensure the mounting surface is clean and dry.
2. **Attach Velcro:** Apply the adhesive Velcro strips to the back of the alarm and the desired mounting location on the wall.
3. **Mount Alarm:** Press the alarm firmly onto the wall to secure it with the Velcro.

6. OPERATING INSTRUCTIONS

6.1 Power On

Once properly wired, the alarm will power on automatically. The display will illuminate, and the device will undergo a brief self-test sequence.

6.2 Display Information

The large LCD screen displays real-time readings for both Carbon Monoxide (CO) and Propane (LPG) gas concentrations. It also shows the current unit (PPM for CO, %LEL or PPM for Propane).

6.3 Button Functions

- **UNIT Button:** Press this button to switch the display unit for propane gas between %LEL (Lower Explosive Limit) and PPM (Parts Per Million).
- **Backlight ON/OFF Button:** Press this button to toggle the display backlight on or off.
- **Mute Button:** Press this button to temporarily silence the audible alarm during an alert. The visual alarm (flashing red light) will continue until the gas concentration returns to safe levels.

6.4 Alarm Indications

When carbon monoxide or propane gas levels exceed safe thresholds:

- An **85-decibel audible alarm** will sound.
- A **flashing red indicator light** will activate.
- The display will show the elevated gas concentration.

ACTION: If the alarm sounds, immediately move to fresh air, ensure all gas appliances are turned off, and do not re-enter the area until the alarm has ceased and the area has been thoroughly ventilated.



Carbon Monoxide & Propane Gas Alarm



Image 6: The alarm unit installed in an RV interior, visually indicating the detection of carbon monoxide (CO) gas.

7. MAINTENANCE

7.1 Regular Testing

It is recommended to test your alarm weekly. Press and hold the "Mute" button (or designated test button if available) to initiate a self-test. The alarm should sound, and the lights should flash, indicating proper function.

7.2 Cleaning

Clean the exterior of the alarm regularly with a soft, damp cloth. Do not use harsh chemicals, abrasive

cleaners, or spray directly onto the unit. Ensure no dust or debris obstructs the sensor openings.

7.3 Sensor Lifespan

Gas sensors have a limited lifespan. While this alarm is designed for durability, it is recommended to replace the unit every 5-7 years to ensure optimal detection capabilities. Refer to the product's manufacturing date for guidance.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Alarm does not power on.	No 12V DC power, incorrect wiring, or faulty unit.	Check 12V DC power supply. Verify wiring connections (red to +, black to -). If issues persist, contact support.
Alarm sounds frequently without apparent gas leak.	False alarm due to strong odors, cleaning products, or sensor contamination.	Ventilate the area. Avoid using strong chemicals near the alarm. Clean the alarm's exterior. If false alarms continue, contact support.
Display is dim or not working.	Backlight off, power issue, or display malfunction.	Press the backlight button. Check power connection. If problem persists, contact support.
Alarm does not respond to test button.	Unit malfunction or power issue.	Ensure power is connected. If the alarm still does not respond, the unit may need replacement. Contact support.

9. SPECIFICATIONS

- **Model:** TE031
- **Power Source:** 12V DC (Hardwired)
- **Product Dimensions:** 4.72"D x 0.78"W x 2.75"H
- **Item Weight:** 4.48 ounces
- **Material:** ABS
- **Sensor Type:** Electrochemical (for CO), Semiconductor (for Propane)
- **Carbon Monoxide Measuring Range:** 0-1000 PPM
- **Carbon Monoxide Resolution:** 1 PPM
- **Carbon Monoxide Alarm Threshold:** ≥ 35 PPM
- **Propane Gas Measuring Range:** 0-10% LEL or 0-2200 PPM
- **Propane Gas Resolution:** 0.1% LEL or 1 PPM
- **Propane Gas Alarm Threshold:** $\geq 5\%$ LEL or ≥ 1100 PPM
- **Audible Alarm:** 85 dB
- **Color:** Black



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Image 7: The alarm unit shown with its dimensions and a clear display of all included accessories.

10. WARRANTY AND SUPPORT

Tadeto products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase or visit the official Tadeto website. Please have your model number (TE031) and purchase date available when contacting support.

The product includes a 1-year replacement promise and 24-hour service team support, as indicated by the brand's A+ content.