DeNova Detect DD623NCV

DeNova Detect DD623NCV Natural Gas and Carbon Monoxide Alarm User Manual

Model: DD623NCV

Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your DeNova Detect DD623NCV Natural Gas and Carbon Monoxide (CO) Alarm. This device is designed to detect both natural gas leaks and dangerous levels of carbon monoxide, providing voice alerts in English and Spanish to enhance safety in your home. Please read this manual thoroughly before installation and keep it for future reference.

Important Safety Information

WARNING:

- This alarm is designed to detect natural gas (methane) and carbon monoxide. It is not designed to detect propane, butane, or other combustible gases.
- This device is not a substitute for proper maintenance of fuel-burning appliances, including appropriate ventilation systems.
- Never ignore any alarm. Failure to respond to an alarm can result in serious injury or death.
- Test the alarm weekly to ensure proper operation.
- Do not paint the alarm. Paint can clog the sensor openings and interfere with the unit's ability to detect gas or CO.

Product Features

- **Dual Sensor Technology:** Detects both natural gas and carbon monoxide.
- **10-Year Battery Life:** Equipped with a long-life battery for continuous protection.
- **Voice Alerts:** Provides clear verbal warnings in English and Spanish for specific hazards.
- **Low 10% LEL Natural Gas Threshold:** Alerts to natural gas presence earlier, allowing more time for response.
- **Self-Diagnostics:** Continuously monitors internal systems and provides alerts if an error occurs.
- **ETL Listed:** Certified to UL 1484 (Natural Gas Alarms) and UL 2034 (Carbon Monoxide Alarms) standards.

Visual representations of key product features: 10-year battery, self-diagnostics, voice alerts, and low LEL natural gas detection.

Package Contents

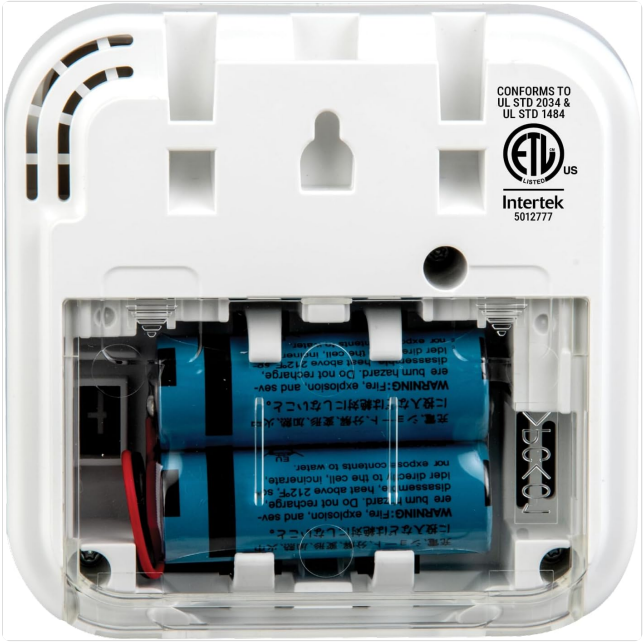
The DeNova Detect DD623NCV Natural Gas and Carbon Monoxide Gas Alarm package includes:

- 1 x DeNova Detect DD623NCV Natural Gas and Carbon Monoxide Gas Alarm
- 2 x Lithium Metal batteries (pre-installed or included)
- Mounting hardware (screws and anchors)
- User Manual (this document)

Setup and Installation

1. Unpacking and Battery Installation

Carefully remove the alarm from its packaging. The unit comes with two Lithium Metal batteries. Ensure they are correctly installed in the battery compartment. If not pre-installed, open the battery compartment cover on the back of the unit and insert the batteries, matching the polarity indicators (+ and -).



Rear view of the alarm with the battery compartment open, showing the two included lithium batteries.



A user holding the alarm, illustrating the battery compartment access.

2. Choosing a Location

For optimal detection of natural gas and carbon monoxide, install the alarm on a wall, ideally within 12 inches (30 cm) from the ceiling. Natural gas rises, and CO mixes with air. Avoid installing in:

- Direct sunlight or near heat sources.
- Areas with high humidity (e.g., bathrooms).
- Near vents, doors, or windows where air currents might prevent gas from reaching the sensor.
- Within 5 feet (1.5 meters) of fuel-burning appliances.



The alarm installed on a wall in a typical home environment.

3. Mounting the Alarm

1. Mark the desired mounting location on the wall.
2. Drill pilot holes if necessary and insert wall anchors.
3. Secure the mounting bracket (if provided) or the alarm directly to the wall using the supplied screws.
4. Ensure the alarm is firmly attached and level.



Front and side views of the alarm, showing its compact design for wall mounting.

4. Initial Test

After installation, press and hold the "Test" button on the front of the alarm for a few seconds. The alarm should sound, and the voice alerts should announce "Testing" followed by "Natural Gas Alarm" and "Carbon Monoxide Alarm". This confirms the unit is functioning correctly.



Close-up of the alarm's front panel, highlighting the 'Test' button and indicator lights.

Operating Instructions

Normal Operation

During normal operation, the "Power" indicator light will flash periodically (e.g., every 30-60 seconds) to indicate the unit is receiving power and functioning correctly. The "Trouble" indicator should remain off.

Alarm Conditions

The alarm will activate under the following conditions:

- **Natural Gas Alarm:** When natural gas is detected at or above 10% LEL (Lower Explosive Limit), the "Natural Gas" indicator will flash, and the unit will sound a loud alarm accompanied by voice alerts stating "Natural Gas Alarm, Evacuate Now!"
- **Carbon Monoxide Alarm:** When dangerous levels of carbon monoxide are detected, the "Carbon Monoxide" indicator will flash, and the unit will sound a loud alarm accompanied by voice alerts stating "Carbon Monoxide Alarm, Evacuate Now!"

ACTION IN CASE OF ALARM:

1. Immediately move to fresh air outdoors or open doors/windows to ventilate the area.
2. Call your emergency services, fire department, or gas utility from a safe location.
3. Do not re-enter the premises until it has been declared safe by emergency responders.

Test/Silence Button

Pressing the "Test" button during an alarm will temporarily silence the audible alarm for a short period (typically 5-10 minutes) to allow for investigation. The indicator lights will continue to flash. If the gas or CO concentration remains high, the alarm will reactivate.

Maintenance

Weekly Testing

Test your alarm weekly by pressing and holding the "Test" button until the alarm sounds and voice alerts are heard. This confirms the sensors and electronics are working.

Cleaning Your Alarm

Clean the alarm regularly (at least once a month) to prevent dust and debris from accumulating on the sensor openings. Use a soft, damp cloth to wipe the exterior. Do not use cleaning solvents or sprays directly on the alarm.

End-of-Life Indication

The DeNova Detect DD623NCV has a 10-year service life. After 10 years, the unit will indicate its end-of-life with a specific audible and visual signal (e.g., a chirp every 30 seconds and a flashing "Trouble" light). When this occurs, the entire unit must be replaced immediately.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Alarm sounds with "Natural Gas Alarm" or "Carbon Monoxide Alarm" voice alert.	Presence of natural gas or carbon monoxide.	**Evacuate immediately.** Call emergency services. Do not re-enter until declared safe.
"Trouble" light flashing or unit chirping periodically.	Internal fault, sensor error, or end-of-life.	Press the "Test" button to silence. If the trouble signal persists, the unit may need replacement. Refer to the end-of-life section.
Alarm does not respond to "Test" button.	Dead batteries (unlikely with 10-year battery), or unit malfunction.	Ensure batteries are correctly installed. If still unresponsive, the unit is faulty and must be replaced.
False alarms.	Strong fumes from cleaning products, aerosols, paint, or high humidity.	Ventilate the area. Relocate the alarm if it's consistently exposed to such conditions. If alarms persist without apparent cause, contact support.

Specifications

Feature	Detail
Model Number	DD623NCV
Sensor Type	Electrochemical (CO), Catalytic Bead (Natural Gas)
Power Source	Battery Powered (2 Lithium Metal batteries, included)
Battery Life	10 Years
Product Service Life	10 Years
Alarm Type	Voice Alerts (English and Spanish) & Audible Alarm
Natural Gas Alarm Threshold	10% LEL (Lower Explosive Limit)
Product Dimensions	3.8"D x 1.6"W x 3.8"H (9.65 cm D x 4.06 cm W x 9.65 cm H)
Item Weight	0.4 Pounds (approx. 6.4 ounces / 181 grams)
Operating Temperature	Refer to product packaging for specific range.
Certifications	ETL Listed to UL 1484 & UL 2034 standards
Manufacturer	NEW COSMOS ELECTRIC CO., LTD.

Warranty and Support

For warranty information or technical support, please refer to the documentation included with your purchase or visit the official DeNova Detect website. You may also contact the manufacturer directly:

Manufacturer: NEW COSMOS ELECTRIC CO., LTD.

Website: www.denovadetect.com

Please have your model number (DD623NCV) and purchase date available when contacting support.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question