DeNova Detect®

Smarter Gas Leak Safety

2-in-1 Natural Gas and Carbon Monoxide Alarm Model DD622NCV

User's Manual

Thank you for purchasing this DeNova Detect 2-in-1 Natural Gas and Carbon Monoxide Alarm. Please thoroughly read and understand this user's manual content before using this Gas Alarm and retain it for future reference. When natural gas (methane) or carbon monoxide is detected, alarm warnings will be activated. The alarm consists of a flashing red LED light, sounding of a warning alarm and a recorded message.

⚠ DANGER: ASPHYXIATION & EXPLOSION

NATURAL GAS LEAK ALARM INDICATES AN EMERGENCY SITUATION AND RISK OF EXPLOSION

- **Leave building immediately, open doors and windows as you leave. Take others with you. If you are outside when you hear the alarm, leave the area immediately.**
- **Avoid creating any sparks.**
- **Find a phone AWAY FROM THE AREA and immediately call 911 and/or your gas utility Company.**
- **Do not re-enter the area until the source of the leak is found and corrected.**

Follow directions from utility employees or emergency responders on site.

⚠ DANGER: ELECTROCUTION

- **Do not subject this Gas Alarm to water or liquid by submerging it, spraying liquid on it or otherwise.**
- **Do not disassemble this alarm or attempt to remove the front cover.**

⚠ DANGER: EXPLOSION

Do not use this Gas Alarm as a short-term testing device. Doing so may cause an explosion.

⚠ DANGER: FIRE & EXPLOSION

Improper Gas Alarm disposal may result in fire or explosion.

⚠ DANGER: HAZARDOUS CONDITIONS

Follow these instructions completely. Failure to do so may result in an undetected natural gas leak or carbon monoxide or other hazardous conditions that may cause serious injury or death.

⚠ DANGER: HEARING DAMAGE

Do not place ear directly against or in close proximity to Gas Alarm. Audible alarms may damage hearing.

⚠ WARNING

- **Do not block, cover, obstruct or paint over Gas Alarm. The Gas Alarm can only detect natural gas and carbon monoxide that reaches Gas Alarm.**
- **This Gas Alarm will reach the end-of-service life in approximately 10 years after the installation date. Replace after end-of-service life signal is initiated.**
- **Test product regularly. Alarm batteries must be properly connected at all times.**
- **Do not modify, disassemble, submerge, strike, crush, or expose Gas Alarm to high levels of volatile organic compounds. This may cause Gas Alarm to malfunction.**
- **Contact DeNova Detect for replacement batteries. Commercially available batteries will not work.**
- **Keep out of reach of children.**
- **For indoor use only.**

⚠ CAUTION

- **This Gas Alarm will only indicate the presence of carbon monoxide gas at the sensor. Carbon monoxide gas may be present in other areas.**

⚠ NOTICE

- **This Gas Alarm only detects natural gas and carbon monoxide. It does not detect fire, heat, smoke, flames, propane or any other gas.**
- **This Gas Alarm is not a substitute for proper installation, use, and maintenance of natural gas and carbon monoxide sources. This Gas Alarm does not prevent natural gas leaks and/or carbon monoxide from occurring, nor can it solve any existing natural gas or carbon monoxide problems.**

General Description & Intended Use

⚠ DANGER

If you smell natural gas, evacuate the area right away, then call 911 or your gas utility company. Do not wait for alarm to sound.

⚠ DANGER

This Gas Alarm is designed to act as a continuous monitor of natural gas and carbon monoxide that reaches the sensors. This Gas Alarm should not be used as a short-term testing device to perform a one-time check for the presence of natural gas or carbon monoxide, as starting the Gas Alarm in the presence of natural gas may cause an explosion.

⚠ WARNING

- **This 2-in-1 Natural Gas and Carbon Monoxide Alarm is intended for residential use and is not suitable for use in hazardous locations as defined in the National Electrical Code (NEC).**
- **This Gas Alarm is intended for use in ordinary indoor locations of family living units. It is not designed to measure carbon monoxide levels in compliance with Occupational Safety and Health Administration (OSHA) commercial or industrial standards. Individuals with medical conditions that may make them more sensitive to carbon monoxide may consider using warning devices which provide audible and visual signals for carbon monoxide concentrations under 30 ppm. For additional information on carbon monoxide and your medical conditions contact your physician.**

This Gas Alarm detects natural gas and carbon monoxide. Natural gas is a fossil fuel that is primarily made up of methane. It is commonly used for cooking, home heating and water heating. Natural gas is typically supplied through a main utility line connected to your home. It is a highly flammable chemical compound. Although it happens rarely, a natural gas leak can sometimes occur inside the home. This can be dangerous because it increases the risk of explosion and fire.
Natural gas is typically odorless and colorless, unless your gas supplier treats it with a chemical to make it smell. Individuals with diminished sense of smell may not be able to detect even treated natural gas. If you are not sure which gas your home uses, contact your utility company.
When this Gas Alarm detects natural gas at a concentration of equal to or greater than 10% LEL for methane, it is designed to provide 2 long beeps and announce "Danger – gas leak explosion risk – evacuate, then call 911" followed by 2 additional long beeps and announce "Peligro – riesgo de explosión por fuga de gas – evacuar, luego llamar al 911."

Carbon monoxide is an invisible, odorless, tasteless gas produced when fossil fuels do not burn completely, or are exposed to heat (usually fire). Electrical appliances typically do not produce carbon monoxide.
These fuels include: wood, coal, charcoal, oil, natural gas, gasoline, kerosene, and propane.
Common appliances are often sources of carbon monoxide. If they are not properly maintained, are improperly ventilated, or malfunction, carbon monoxide levels can rise quickly. Carbon monoxide is a real danger now that homes are more energy efficient. "Air-tight" homes with added insulation, sealed windows, and other weatherproofing can "trap" carbon monoxide inside.

These symptoms of CARBON MONOXIDE POISONING should be discussed with ALL household members.
Mild Exposure: Slight headache, nausea, vomiting, fatigue ("flu-like" symptoms).
Medium Exposure: Severe throbbing headache, drowsiness, confusion, fast heart rate.
Extreme Exposure: Convulsions, unconsciousness, heart and lung failure, brain damege, death.
Many cases of reported CARBON MONOXIDE POISONING indicate that while victims are aware they are not well, they become so disoriented they are unable to save themselves by either exiting the building or calling for assistance. Young children and household pets are typically the first affected.

Carbon monoxide is an odorless, invisible gas, which often makes it difficult to locate the source of carbon monoxide after an alarm. These are a few of the factors that can make it difficult to locate sources of carbon monoxide:
• House has been well ventilated before the investigator arrives.
• Problem caused by backdrafting.
• Transient carbon monoxide problem caused by special circumstances.
Because carbon monoxide may dissipate by the time an investigator arrives, it may be difficult to locate the source of carbon monoxide. New Cosmos USA, Inc. shall not be obligated to pay for any carbon monoxide investigation or service call.

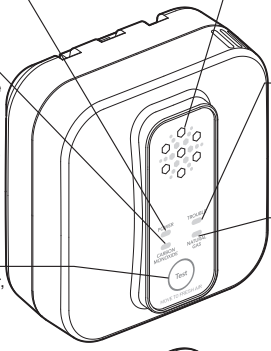
The following conditions can result in transient carbon monoxide situations:

- Excessive spillage or reverse venting of fuel-burning appliances caused by outdoor ambient conditions, such as, wind direction and/or velocity, including high gusts of wind, heavy air in the vent pipes (cold/humid air with extended periods between cycles).
- Negative pressure resulting from the use of exhaust fans.
- Simultaneous operation of several fuel-burning appliances competing for limited internal air.
- Vent pipe connections vibrating loose from clothes dryers, furnaces, or water heaters.
- Obstructions in, or unconventional, vent pipe designs which can amplify the above situations.
- Extended operation of unvented fuel-burning devices (range, oven, fireplace, etc.).
- Temperature inversions which can trap exhaust gases near the ground.
- Vehicle idling in an open or closed garage, or near a home.

To be safe, know the possible sources of carbon monoxide in your home. Keep fuel-burning appliances and their chimneys and vents in good working condition. Learn the early symptoms of exposure, and if you suspect carbon monoxide poisoning, move outside to fresh air and get emergency help. Your first line of defense is an annual inspection and regular maintenance of your appliances. Contact a licensed contractor or call your local utility company for assistance.

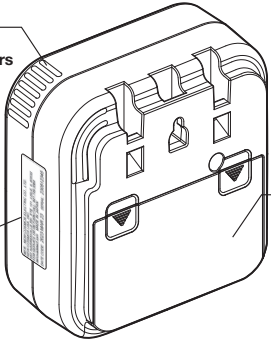
Gas Alarm Parts

- **Green LED - Power**
  This LED Light flashes on when the test button is pressed.
- **Red LED - Carbon Monoxide Indicator**
  - This LED light flashes on when carbon monoxide is detected.
  - This LED light flashes on when the test button is pressed.
- **Test Button**
  Used to test power, alarm sounds.



- **Alarm Speaker**
  Sounds an alarm when natural gas, carbon monoxide, Gas Alarm trouble, low battery, or Gas Alarm end-of-service-life is detected.
- **Yellow LED - Trouble Error**
  This LED light flashes on when there is an internal error detected. Alarm must be replaced.
- **Red LED- Natural Gas Leak Indicator**
  - This LED light flashes on when natural gas is detected.
  - This LED light flashes on when the test button is pressed.

- **Internal Natural Gas and Carbon Monoxide Sensors**
  Detects a natural gas leak and/or carbon monoxide.



- **Battery Compartment Cover**
  This clear plastic cover slides off/ opens to install batteries.

- **Production Serial Number Label**

MFR.: NEW COSMOS ELECTRIC CO., LTD.
NEW COSMOS USA, INC.
650 WARRENVILLE RD. STE 101, LISLE, IL 60532
FOR SERVICE OR RETURN CALL: 847-749-3064
denovadetect.com MADE IN JAPAN
DATE CODE: 2023 MAR 23 SERIAL: 230512345

Mounting the Gas Alarm

Selecting the Gas Alarm Location

⚠ WARNING

- **Mounting in an improper location can affect the sensitive electronic components in this Gas Alarm.**
- **Improper Gas Alarm location can prevent detection of natural gas and carbon monoxide.**
- **Improper location can prevent you from hearing the alarm. Install in a location where you can hear the alarm sound loudly from all sleeping areas.**
- **Place Gas Alarm out of reach of children. Under no circumstances should children be allowed to handle this Gas Alarm.**
- **Two adhesive warning labels have been provided that have important information on what to do in case of a carbon monoxide alarm. Add the phone number of your emergency service provider in the space provided. Place one label next to the Gas Alarm after it is mounted, and one label near a fresh air source such as a door or window.**

Gas Alarms should be installed in all rooms where a natural gas leak and/or carbon monoxide may occur or a gas appliance is located. Examples are a kitchen (natural gas leak and/or carbon monoxide from gas ovens and cook tops), laundry (natural gas leak and/or carbon monoxide from a gas clothes dryer), and furnace area (natural gas leak and/or carbon monoxide from furnace burners or boilers).

It is possible that gas leaks may migrate along pipes so consideration should be given to place Gas Alarms in multiple rooms. Consider placing a Gas Alarm in each bedroom where the occupant closes the door while sleeping.

Although it is important to install Gas Alarms in rooms where gas appliances exist, it is recommended Gas Alarms be placed at least 3 feet (0.9 meters) away and no more than 10 feet (3 meters) away. The placement recommendations are intended to keep Gas Alarms at a reasonable distance from a gas source, and thus reduce “unwanted” alarms, which can occur if a Gas Alarm is placed directly next to a gas source.

Avoid placing the Gas Alarm near a cooking appliance or cooktop hood. If you must do so, install at least 5 feet (1.5 meters) from cooking appliance or cooktop hood because cooking vapors or grease may contaminate the Gas Alarm.

For carbon monoxide alarms, the National Fire Protection Association (NFPA) recommends that a carbon monoxide alarm should be centrally located outside of each separate sleeping area in the immediate vicinity of the bedrooms. For added protection, install additional carbon monoxide alarms in each separate bedroom, and on every level of your home.

Gas Alarm should be Mounted:

- Within 12 inches (0.3 meters) from the ceiling.
- At least 5 feet (1.5 meters) from cooking appliance or cooktop hood.
- At least 3 feet (0.9 meters) away and no more than 10 feet (3 meters) away from gas appliances.

Gas Alarm should NOT be Mounted:

- In the peak of a cathedral ceiling. In an area where it will be impeded by items hanging from or near the ceiling such as curtains, drapes, ceiling fans.
- Directly above or near sources of water or humidity such as a sink, cooktop, dishwasher or shower.
- Next to a door or window.
- Next to a ventilation fan.
- Near a room return or HVAC duct.
- In an area where the temperature will drop below 32°F (0°C) or exceed 122°F (50°C).
- In an area that is dusty or dirty.
- In an area where organic solvents exist or silicone vapors exist.
- In a damp or very humid location, such as a bathroom.
- Outside.

Battery Installation

⚠ DANGER : SHOCK HAZARD

Do NOT remove the plastic wrap surrounding the battery pack. Doing so may cause an electrical short or shock.

⚠ WARNING

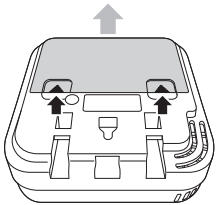
After installing or replacing batteries, always test the Gas Alarm to ensure it is operational.

⚠ NOTICE

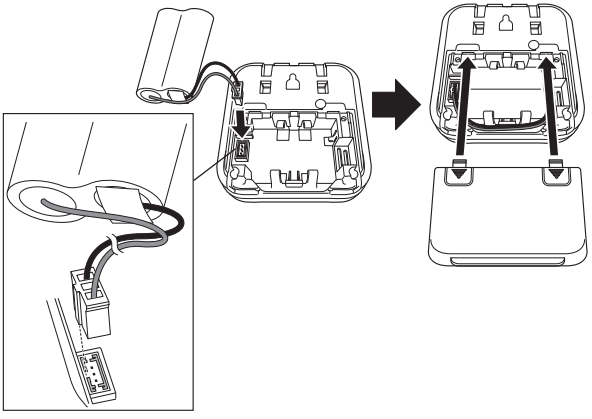
This Gas Alarm uses a type of battery that is not available in retail stores. Contact DeNova Detect for replacement batteries.

To install the included batteries, or replace with manufacturer-supplied replacement batteries:

- Open the clear battery compartment cover on the back of the Gas Alarm. This cover slides out of place. To open, place both thumbs on the grooved arrows on the back of the battery cover where the battery cover hooks snap into place.
- Push down on the grooved arrows with your thumbs and slide the cover out. Some force is required.



- Connect the batteries by inserting the battery harness plug into the Gas Alarm receptacle as shown in the diagram below. Do NOT remove the plastic wrap surrounding the batteries.



- The battery harness plug has a large notch on it that faces to the left away from the Gas Alarm when installed correctly. There is only one way in which the plug can be installed. A small portion of the plug will be exposed when connected properly.

If replacing the batteries, refer to “Gas Alarm Disposal” section for instructions on disposing of the old batteries.

Mounting the Gas Alarm

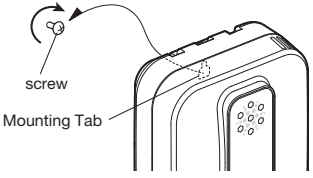
⚠ NOTICE

After mounting the Gas Alarm, test it following instructions in this User's Manual.

The Gas Alarm may be mounted to the wall or a pipe in a location meeting the criteria discussed in the "Selecting Gas Alarm Location" section.

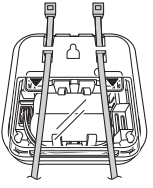
To Mount the Gas Alarm to a Wall:

(1) Tools you will need: Drill with 3/16" or 5 mm drill bit, Phillips head screwdriver, hammer.
(2) Tools supplied: A plastic screw anchor and screw have been provided in the box.
(3) Choose a location on the wall within 12 inches (0.3 meters) from the ceiling. Make a mark on the wall where you will drill the mounting hole.
(4) Use a 3/16" (5 mm) drill bit to drill the mounting hole and insert included plastic screw anchor into the hole.
(5) Tighten the screw into the anchor until the screwhead is about 3/16" (5 mm) away from the wall, leaving enough space for the screw to insert into the keyhole slot on the back of the Gas Alarm as shown below.
(6) Hang the Gas Alarm on the screw.
(7) Test the Gas Alarm by pressing the test button. Refer to "Testing the Gas Alarm Functions" section of this manual for additional information.



To Mount the Gas Alarm to a Pipe:

(1) Pass cable ties through the holes at the top of the Gas Alarm. Cable ties are not included with this Gas Alarm.



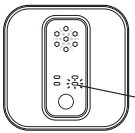
(2) Wrap the cable ties around the pipe and tie off.

Gas Alarm Functions

This Gas Alarm is designed to activate an alarm in the event of a natural gas leak, carbon monoxide, Gas Alarm trouble, low battery, or Gas Alarm end-of-service-life for the Gas Alarm.

Natural Gas Leak Alarm Activation

A natural gas leak alarm activates when the concentration of natural gas in the area of the Gas Alarm reaches or exceeds 10%LEL for methane. When activated, the Gas Alarm is designed to:



An alarm sounds “Beep Beep Danger – gas leak explosion risk – evacuate, then call 911” followed by “Bip Bip Peligro – riesgo de explosión por fuga de gas – evacuar, luego llamar al 911.”

Red LED (natural gas leak indicator)
Flashes once every 2 seconds

Provide 2 long beeps and announce “Danger – gas leak explosion risk – evacuate, then call 911” followed by 2 additional long beeps and announce “Peligro – riesgo de explosión por fuga de gas – evacuar, luego llamar al 911.” Notification will repeat continuously for 4 minutes, then every 1 minute after.
Red LED flashes once every 2 seconds.
In the event the natural gas leak dissipates to a concentration below the Gas Alarm's alarm threshold, the gas alarm notification will automatically reset. The red LED will stop blinking, and the audible tone will stop.

Responding to Natural Gas Leak Alarm Activation

⚠ DANGER : ASPHYXIATION & EXPLOSION

Follow these instructions carefully in the event the natural gas leak alarm activates. Never ignore natural gas leak alarm.

When this Gas Alarm detects natural gas at a concentration of greater than or equal to 10% LEL for methane, it is designed to Provide 2 long beeps and announce, “Danger – gas leak explosion risk – evacuate, then call 911” followed by 2 additional long beeps and announce “Peligro – riesgo de explosión por fuga de gas – evacuar, luego llamar al 911.” A red LED light will also flash on the Gas Alarm.

Leave the building immediately, opening doors and windows as you leave. Take others with you. If you are outside when you hear the alarm, leave the area immediately.

Any spark might cause natural gas to explode. Take all appropriate steps to avoid causing a spark near the affected property, including the following:

- **Do not unplug the lithium batteries.**
- **Do not light a match or smoke.**
- **Do not turn appliances or lights on or off.**
- **Do not use a flashlight or phone.**
- **Do not start a car.**

Find a phone away from the area and immediately call 911 and/or your natural gas utility company. You can report leaks anonymously.

Do not re-enter the area until the source of the leak is found and corrected. Follow directions from utility employees or emergency responders who are on site.

⚠ DANGER: EXPLOSION RISK

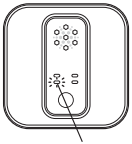
Do not reset Gas Alarm after natural gas leak alarm goes off, unless instructed to do so by emergency personnel. The resetting process can cause an explosion if conducted in an area with high concentrations of natural gas.

Emergency responders or trained personnel may reset or instruct you to reset the Gas Alarm after the leak has been corrected by removing and reinstalling the batteries.This will turn off audible and visual notifications. After removing the batteries, press and hold the test button for at least 10 seconds and leave the batteries unplugged for at least 2 minutes. This will reset the Gas Alarm by turning off audible and visual notifications.

In the event the natural gas leak dissipates to a concentration below the Gas Alarm's alarm threshold, the gas alarm notification will automatically reset. The red LED will stop blinking, and the audible tone will stop.

Carbon Monoxide Alarm Activation

An alarm activates when the concentration of carbon monoxide in the area of the Gas Alarm reaches 70ppm and continues for 60-240 minutes, 150ppm for 10-50 minutes, or 400ppm for 4-15 minutes. When activated, Gas Alarm is designed to:



An alarm sounds every "Beep Beep Beep Beep Danger – carbon monoxide detected – evacuate now." followed by "Bip Bip Bip Bip Peligro – se detectó monóxido de carbono – evacuar de inmediato."

Red LED (carbon monoxide indicator)
Flashes once every 2 seconds

Beep 4 times and announce "Danger – carbon monoxide detected – evacuate now." followed by 4 additional beeps and announce "Peligro – se detectó monóxido de carbono – evacuar de inmediato."
Notification will repeat continuously for 4 minutes, and then every 1 minute thereafter. Red LED flashes once every 2 seconds.
In the event the carbon monoxide dissipates to a concentration below the Gas Alarm's alarm threshold, the carbon monoxide alarm notification will automatically reset. The red LED will stop blinking, and the audible tone will stop.
If the carbon monoxide alarm is sounding, pressing the test button will silence the audible alarm of the carbon monoxide alarm for 6 minutes. During this 6-minute silence period, the red carbon monoxide LED will continue to flash once every 2 seconds. If after the 6-minute silence period, the carbon monoxide concentration is still above the alarm threshold, the audible alarm will reactivate continuously for 4 minutes, and then every 1 minute thereafter.

⚠ NOTICE

If natural gas is detected at a concentration of greater than or equal to 10% LEL for methane while the carbon monoxide alarm is already activated, then the natural gas alarm will take priority and will begin to announce the gas leak alarm instead of the carbon monoxide alarm.

Responding to Carbon Monoxide (CO) Alarm Activation

⚠ WARNING

Actuation of your CO alarm indicates the presence of carbon monoxide (CO), which can KILL YOU.
If carbon monoxide signal sounds:

1. **Operate Test button;**
2. **Call your emergency services;**
   PHONE NUMBER ► _____ **(fire department or 911)**
3. **Immediately move to fresh air - outdoors or by an open door/window. Do a head count to check that all persons are accounted for. Do not re-enter the premises or move away from the open door/window until the emergency service responders have arrived, the premises has been aired out and your alarm remains in its normal condition;**
4. **After following steps 1-3, if your alarm reactivates within a 24 hour period, repeat steps 1-3 and call a qualified appliance technician to investigate for sources of CO from fuel burning equipment and appliances, and inspect for proper operation of this equipment. If problems are identified during this inspection, have the equipment serviced immediately. Note any combustion equipment not inspected by the technician and consult the manufacturers' instructions, or contact the manufacturers directly for more information about CO safety and this equipment. Make sure that motor vehicles are not, and have not been, operating in an attached garage or adjacent to the residence.**
   PHONE NUMBER ► _____

This Gas Alarm provides early warning of the presence of carbon monoxide, usually before a healthy adult would experience symptoms. This early warning is possible, however, only if your Gas Alarm is located, installed and maintained as described in this guide.

Because carbon monoxide is a cumulative poison, long-term exposures to low levels may cause symptoms, as well as short-term exposures to high levels. This Gas Alarm senses carbon monoxide using a time-weighted alarm – the higher the level of carbon monoxide present, the sooner this Gas Alarm will be triggered.

This Gas Alarm can warn you of the presence of carbon monoxide. It does not prevent carbon monoxide from occurring, nor can it solve an existing carbon monoxide problem. If your Gas Alarm has sounded, and you have provided ventilation by leaving your windows and doors open, the carbon monoxide buildup may have dissipated by the time help responds. Although your problem may appear to be temporarily solved, it is crucial the source of the carbon monoxide is determined and the appropriate repairs are made.

This Gas Alarm is designed to act as a monitor; it is not designed for use as a short-term testing device to perform a quick check for the presence of carbon monoxide.

Gas Alarms have limitations. Like many other electronic device, Gas Alarms are not fool-proof. Gas Alarms have a limited operational life. You must test your Gas Alarm weekly, because it could fail to operate at any time.

If your Gas Alarm fails to test properly, or if its self-diagnostic test reveals a malfunction, immediately have the Gas Alarm replaced. This Gas Alarm may not monitor carbon monoxide levels while in an error condition.

Gas Alarms can only sense carbon monoxide that reaches the sensor. It is possible that carbon monoxide may be present in other areas without reaching the Gas Alarm. The rate and ability that which carbon monoxide reaches the Gas Alarm may be affected by:

- **Doors or other obstructions.**
- **Fresh air from a vent, an open window or other source.**
- **Carbon monoxide being present on one level of the home and not reach a Gas Alarm installed on a different level. (For example, carbon monoxide in the basement may not reach a Gas Alarm on the second level, near the bedrooms).**

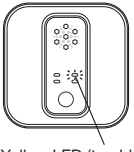
For these reasons, we recommend you provide complete coverage by placing a Gas Alarm on every level of the home. Please carefully read all information in this User's Manual on properly installing this Gas Alarm.

⚠ NOTICE

Warn children of the dangers of carbon monoxide poisoning and natural gas leaks.

Gas Alarm Trouble Error Activation

A trouble alarm sounds every 60 seconds when an alarm error occurs, alternating between the following messages each minute: “Beep Beep Beep Detector error” and “Bip Bip Bip Error del detector.”



A trouble alarm sounds every 60 seconds stating “Beep Beep Beep Detector error” followed by “Bip Bip Bip Error del detector.”
By pressing and holding the test button for 3 seconds and releasing, a trouble alarm will sound stating “Beep Beep Beep Detector error” followed by “Bip Bip Bip Error del detector”.

Yellow LED (trouble error)
Flashes 3 times every 10 seconds

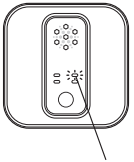
Yellow LED flashes 3 times every 10 seconds.
Refer to “Troubleshooting” section for more information on resolving alarm errors.

Low Battery Warning Activation

⚠ WARNING

This Gas Alarm uses specialized batteries not available at retail stores. Contact DeNova Detect for replacement batteries.

A low battery warning sounds when the batteries are low. When the low battery alarm first activates, the Gas Alarm will beep 1 time and announce “Low battery” followed by an additional beep and announce “Batería baja”.



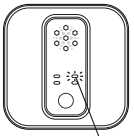
A low battery warning will sound “Beep” every 60 seconds. Once every hour, the Gas Alarm will announce “Beep Low battery” followed by “Bip Batería baja.”
By pressing and holding the test button for 3 seconds and releasing, a low battery warning will sound announcing “Beep Low battery” followed by “Bip Batería baja.”
Contact DeNova Detect to arrange for rreplacement batteries.

Yellow LED (trouble error)
Flashes once every 10 seconds

Yellow LED flashes once every 10 seconds
Contact DeNova Detect for replacement batteries.

Gas Alarm End-of-Service-Life Warning Activation

The Gas Alarm end-of-service-life warning sounds when the Gas Alarm end-of-service-life is reached to indicate it is time to replace the Gas Alarm.This Gas Alarm will reach the end-of-service-life in approximately 10 years after the installation date. Replace after end-of-service-life warning is activated. When the Gas Alarm end-of-service-life warning first activates, the Gas Alarm will sound 2 short beeps and announce “Por favor, reemplace el detector.”



Yellow LED (trouble error)
Flashes twice every 10 seconds

An end-of-service-life warning will sound “Beep Beep” every 60 seconds. Once every hour, the Gas Alarm will announce “Beep Beep Please replace detector” followed by “Bip Bip Por favor, reemplace el detector.” By pressing and holding the test button for 3 seconds and releasing, an end-of-service-life warning will sound announcing “Beep Beep Please replace detector” followed by “Bip Bip Por favor reemplace el detector.”

Yellow LED flashes 2 times every 10 seconds.
The audible Gas Alarm end-of-service-life warning can be silenced by pressing and holding the test button for 3 seconds and releasing. The Gas Alarm will provide 2 short beeps and announce “Please replace detector” followed by 2 additional short beeps and announce “Por favor reemplace el detector” after releasing the test button, at which point the Gas Alarm end-of-service-life warning will be silenced for approximately 8 hours. The yellow LED will still flash 2 times every 10 seconds during this time. After approximately 8 hours, the audible Gas Alarm end-of-service-life warning will re-activate. This audible alarm can be silenced for up to approximately 10 days after its initial activation, at which point it can no longer be silenced. Replace the Gas Alarm immediately upon activation of the Gas Alarm end-of-service-life warning.

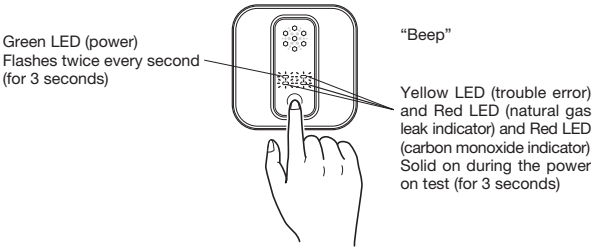
Testing the Gas Alarm Functions

⚠ CAUTION

Test your Gas Alarm's power, and natural gas leak and carbon monoxide alarm notifications at least once a week.
If the Gas Alarm does not operate properly, it cannot alert you to the presence of natural gas and/or carbon monoxide. If your Gas Alarm fails to test, replace your Gas Alarm immediately.

Testing Power

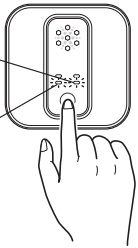
Press and hold the test button until you hear a “Beep” sound, then quickly release (within 3 seconds from when the button was pressed). If the Gas Alarm is properly powered, the green LED will flash twice every second for 3 seconds to indicate that the power is on, and the yellow and red LEDs will remain on until the test sequence is complete.



Testing Natural Gas Leak and Carbon Monoxide Alarm Notifications

Press and hold the test button for 5 seconds and these alarm notifications will begin automatically.

Red LED (natural gas leak indicator) on the right side Flashes once every 2 seconds when natural gas leak alarm sounds. Then, Red LED (carbon monoxide indicator) on the left side Flashes once every 2 seconds when carbon monoxide alarm sounds.



"Beep"
"Beep Beep"
When the button is released "Beep Beep Danger– gas leak explosion risk–evacuate, then call 911." followed by "Bip Bip Peligro – riesgo de explosión por fuga de gas – evacuar, luego llamar al 911." followed by "Beep Beep Beep Beep Danger - carbon monoxide detected - evacuate now. " followed by " Beep Beep Beep Beep Peligro - se detecto monoxido de carbono - evacuar de inmediato."will sound.

If the Gas Alarm is operating properly, the red LED (natural gas leak indicator) on the right side of the Gas Alarm front panel will flash once every 2 seconds until the natural gas leak alarm test sequence is complete, and the following alarm message will sound: "Beep Beep Danger – gas leak explosion risk – evacuate, then call 911. Bip Bip Peligro – riesgo de explosión por fuga de gas – evacuar, luego llamar al 911." Then, the red LED (carbon monoxide indicator) on the left side of the Gas Alarm front panel will flash once every 2 seconds until the carbon monoxide alarm test is complete, and the following alarm message will sound: "Beep Beep Beep Beep Danger - carbon monoxide detected - evacuate now. Beep Beep Beep Beep Peligro - se detecto monoxido de carbono - evacuar de inmediato. "

Maintenance and Cleaning of Gas Alarm

⚠ WARNING

If the Gas Alarm is installed in dusty or dirty atmospheric environments, periodic cleaning of the Gas Alarm should be performed in accordance with these instructions. Dirt and dust can cause Gas Alarm malfunction or obstruct the entry holes in which gas needs to flow to reach the sensors in the Gas Alarm.

After cleaning, always test the Gas Alarm to ensure it has not been damaged.

Clean the Gas Alarm to maintain proper operation, by vacuuming the exterior of the Gas Alarm using a household vacuum's soft brush attachment.

Never use water, cleaners or solvents since they may damage the Gas Alarm.

Do not use spray cleaning chemicals or insect sprays directly on or near the Gas Alarm. Do not use any household cleaning agents, ammonia-based cleaners, paints, varnishes, aerosol sprays including compressed gas dusters, or any other chemical on or near this Gas Alarm.

Troubleshooting

Symptom	Cause	Action
The green LED does not flash, and yellow and red LEDs do not turn solid on, even when the button is pressed.	Battery plug not properly plugged in	Plug in the battery plug
	Batteries are low	Contact DeNova Detect for replacement batteries
The yellow LED is flashing.	**Flashes three times every 10 seconds**: Gas Alarm trouble	Replace Gas Alarm
	Flashes twice every 10 seconds: Gas Alarm end-of-service-life warning	Replace Gas Alarm
	Flashes once every 10 seconds: Low battery warning	Contact DeNova Detect for replacement batteries

Gas Alarm Disposal

⚠ DANGER

Prior to disposing of this Gas Alarm, remove the batteries and wrap them with tape or similar material as shown in the below image to avoid potential explosion or ignition that may result in injury or fire.

⚠ DANGER

Do not incinerate. Batteries may explode.

When disposing of Gas Alarm, it is important to remove the batteries and wrap with tape or similar, non-flammable material as shown in the below image.

Dispose of batteries in accordance with local regulations relating to non-rechargeable (single use) lithium batteries. Dispose the Gas Alarm following your local regulations for solid waste disposal. Take the Gas Alarm to an electronics recycling facility (where such facilities exist) for disposal.

Specifications

Model number	DD622NCV
Conforming standards	UL standard (UL1484 and UL2034)
Detection principle	Methane (Natural Gas)… MEMS hot-wire semiconductor sensor Carbon Monoxide (CO)…Electrochemical sensor
Target gas	Methane (Natural Gas) Carbon Monoxide (CO)
Operating temperature range	32°F (0°C) to 122°F (50°C)
Operating humidity range	5% to 95% RH, no condensation
Power supply	3V Lithium battery Battery Model No.:CR17500EP-2-CN (not available at retail stores)
Sensitivity	Methane (Natural Gas) : 10% LEL Carbon Monoxide (CO): 60-240 min 70ppm; 10-50 min 150ppm; 4-15 min 400ppm
Speaker output	Natural gas and carbon monoxide alarm : 85 dB at 10 feet
Product lifetime	Approximately 10 years
Dimensions	W 96 × H 96 × D 40.5 mm (3.8×3.8×1.6 in)
Installation	Wall mount with included hardware or pipe mount by cable ties

* LEL, short for “Lower Explosive Limit”, is defined as the lowest concentration (by percentage) of a gas or vapor in air that is capable of producing a flash of fire in presence of an ignition source (arc, flame, heat).

TEN YEAR LIMITED WARRANTY

Model DD622NCV

Warranty Coverage: New Cosmos USA, Inc. (d/b/a DeNova Detect) warrants that this product will be free of defects in material and workmanship for a period of ten (10) years from date of purchase. This warranty does not apply to batteries used in the product or to any damage which may be caused by such batteries. New Cosmos USA liability hereunder is limited to replacement of the product or repair of the product at their discretion. For the avoidance of doubt, this warranty shall not be construed to provide for damages related to loss of use of this product or for any indirect, special, incidental, or consequential damages, or costs, or expenses incurred by the consumer or any other user of this product, whether due to a breach of contract, negligence, strict liability in tort or otherwise. This warranty is void if the product has been damaged by accident, unreasonable use, neglect, tampering, improper maintenance or handling, storage, installation, testing, or use not in accordance with the user's guide, or other causes not arising from defects in material or workmanship. This warranty extends to the original purchaser of the product only and may be enforced only by the original purchaser. Proof of purchase required. This warranty is only valid for merchandise purchased from authorized distributors in the United States and Canada.

Warranty Disclaimers: New Cosmos USA, Inc. specifically disclaims all implied warranties other than those described in the preceding paragraph to the maximum extent allowable by applicable law and has provided for no express warranties beyond those covered in the preceding paragraph. To the extent any tribunal of competent jurisdiction applies any warranty arising out of this sale beyond those expressed in the preceding paragraph, including but not limited to the implied warranties of description, merchantability, and fitness for a particular purpose, all such warranties are limited in duration to the above warranty period. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Returns Under Warranty: During the above warranty period, your product will be replaced with a comparable product if the product is returned shipping prepaid together with proof of purchase date to the following address: DeNova Detect, 650 Warrenville Rd, Suite 101, Lisle, IL 60532. Please include a note describing the problem when you return the product. The replacement product will be in warranty for the remainder of the original product's warranty period or for six months, whichever is longer. No charge will be made to replace the product. If you have questions, call DeNova Detect customer service department at 847-749-3064 or email us at support@denovadetect.com

Lithium batteries are excluded from this warranty. New Cosmos USA makes no warranty, express or implied, written, or oral, including that of merchantability or fitness for any particular purpose, with respect to the included battery.

The above warranty may not be altered, except in writing, and signed by both parties hereto.

Contact Information

DeNova Detect
650 Warrenville Rd, Suite 101
Lisle, IL 60532 USA
Phone: 847.749.3064
support@denovadetect.com
denovadetect.com

FOLLOW US
@denovadetect

denovadetect.com

DeNOva Detect®

Smarter Gas Leak Safety

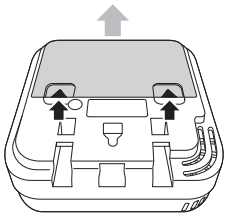
Quick Start Guide

Models DD620NV and DD622NCV

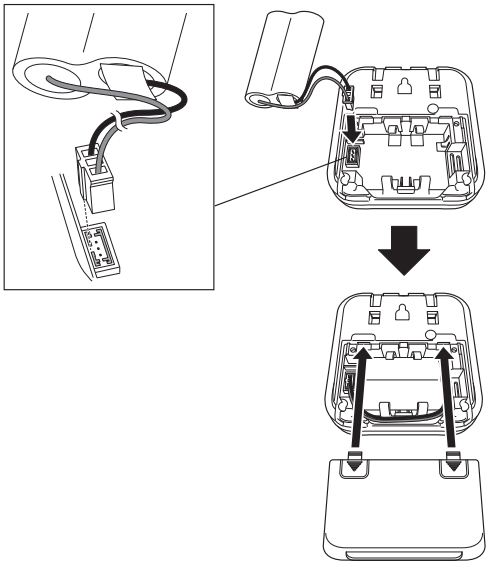
Battery Installation

To install the included batteries:

- Open the clear battery compartment cover on the back of the Gas Alarm. This cover slides out of place. To open, place both thumbs on the grooved arrows on the back of the battery cover where the battery cover hooks snap into place.
- Push down on the grooved arrows with your thumbs and slide the cover off. Some force is required.



- Connect the batteries by inserting the battery harness plug into the Gas Alarm receptacle as shown in the diagram below. **Do NOT remove the plastic wrap surrounding the batteries.**



- The battery harness plug has a large notch on it that faces to the left away from the Gas Alarm when installed correctly. There is only one way in which the plug can be installed. A small portion of the plug will be exposed when connected properly.

If replacing the batteries, refer to “Gas Alarm Disposal” section for instructions on disposing of the old batteries.

Test Your Alarm

Test the alarm by pressing the "Test" button before mounting and after mounting.

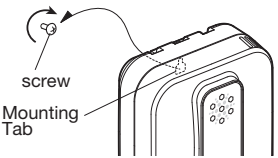
Refer to the "Testing the Gas Alarm Functions" section of the User's Manual for complete instructions.

Mounting the Gas Alarm

The Gas Alarm may be mounted to the wall or a pipe in a location meeting the criteria discussed in the “Selecting Gas Alarm Location” section of the User's Manual.

To Mount the Gas Alarm to a Wall:

(1) Tools you will need: Drill with 3/16” or 5 mm drill bit, Phillips head screwdriver, hammer.
(2) Tools supplied: A plastic screw anchor and screw have been provided in the box.
(3) Choose a location on the wall within 12 inches (0.3 meters) from the ceiling. Make a mark on the wall where you will drill the mounting hole.
(4) Use a 3/16” (5 mm) drill bit to drill the mounting hole and insert included plastic screw anchor into the hole.
(5) Tighten the screw into the anchor until the screwhead is about 3/16” (5 mm) away from the wall, leaving enough space for the screw to insert into the keyhole slot on the back of the Gas Alarm as shown.
(6) Hang the Gas Alarm on the screw.
(7) It is very important to test this alarm after installation by pressing the test button. Refer to the "Testing the Gas Alarm Functions" section of the User's Manual for complete instructions.



Contact Information

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