

Owner's Manual

NATURAL GAS DETECTOR

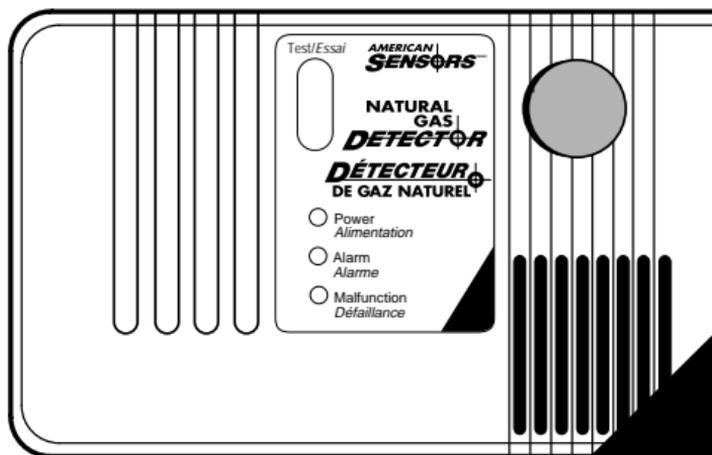
Drop Cord

120 Volt Plug In Model

NG200

120 Volt Hardwire Model

NG400



**AMERICAN
SENSORS**

HOME HEALTH AND SAFETY PRODUCTS™

1500-0022 (rev A)

Send
in your
Warranty
Card
TODAY!

Introducing the NG200 and NG400 Natural Gas Detectors

The NG200, NG400 Natural Gas Detectors are effective products for detecting any buildup of natural gas in your home. American Sensors Electronics Inc. has been developing and making products for detecting gases since 1985.

Your new detector:

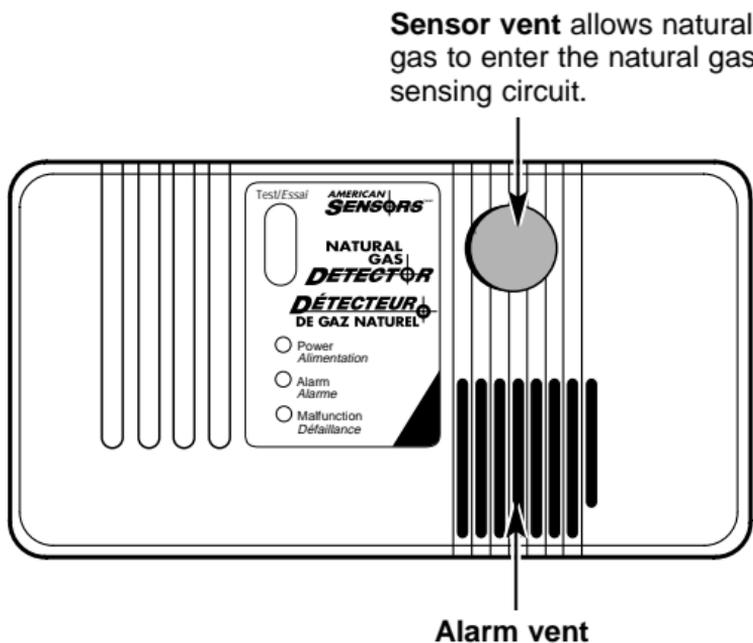
- Is easy to install
- Monitors for natural gas continuously
- Sounds a loud alarm (85 dB) when it detects a buildup of natural gas
- Has a Test button so that you can test it at any time
- Tests itself continuously
- Is listed under the Underwriters Laboratories Standard UL1484 and is certified by the Canadian Standards Association
- Has a 5-year comprehensive warranty

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Why should you be concerned about natural gas?

The harmful element in natural gas is methane, a colourless and flammable gas. As natural gas builds up, it mixes with oxygen to produce a mixture that can be explosive if ignited by a spark or flame.

Most likely sources of leaks are gas appliances, heaters, stoves, refrigerators, and furnaces. Gas leaks from outside or below ground level can also seep into your home.



Where should you install the detector?

Natural gas is lighter than air and so collects in the highest areas of rooms and homes. To detect a dangerous concentration of natural gas, you should place your detector near a natural gas appliance or in a room above the appliance. For example, a natural gas leak in the kitchen can create a buildup in the floors above.



You should place your detector as close to the ceiling as possible (see the following page for details).



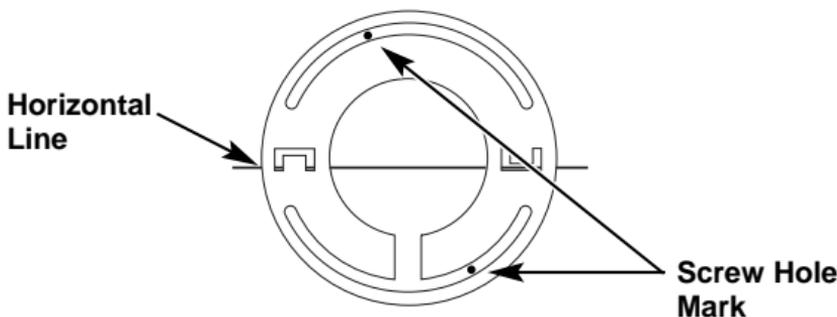
How should you install the detector?

FOR DROP CORD PLUG IN MODEL NG200:

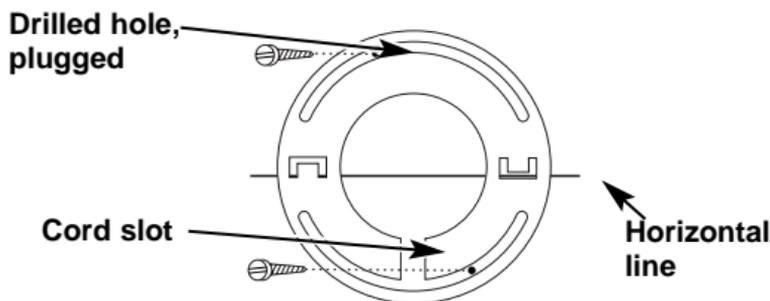
Place the Natural Gas Detector within 1m (36 inches) of the ceiling and within 2m (6 feet) of a continuously powered (unswitched) standard 120 VAC wall outlet. The detector has a power cord that is 2m (6 feet) long and plugs into a wall outlet.

To install the detector:

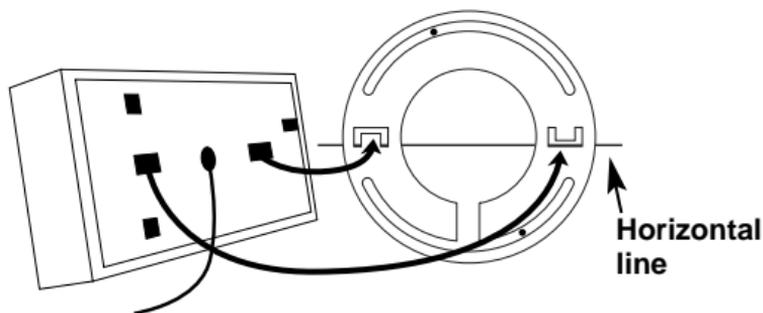
1. At the place where you are going to install the detector, draw a horizontal line four inches long.
2. Place the circular mounting plate so that the square holes are aligned on the line.
3. In each of the circular slots, draw a mark to locate a mounting plug and screw.



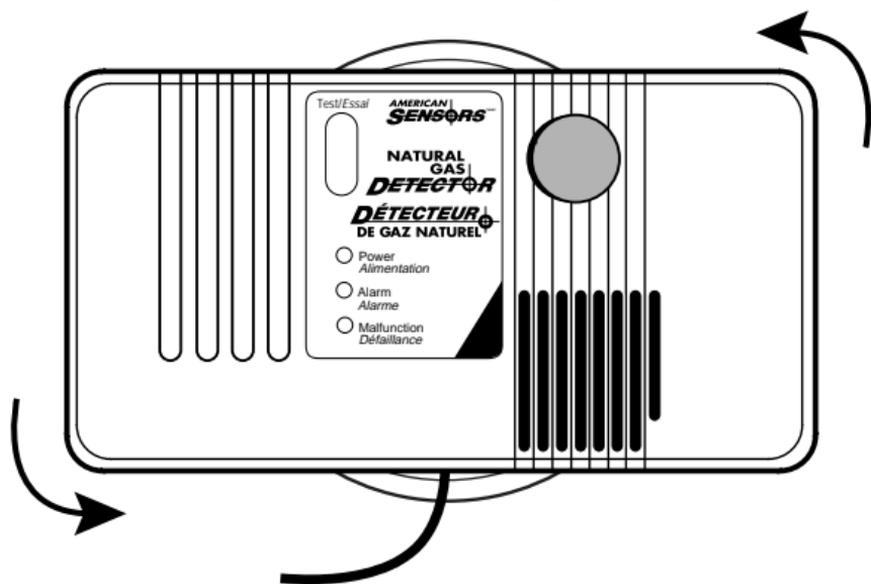
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4. Remove the mounting plate.
 5. Using the appropriate size drill, drill two holes at the marks and insert wall plugs.
 6. Using the two screws and wall plugs (all supplied), attach the mounting plate to the wall, ensuring that the cord slot in the mounting plate is down.



7. Slide the detector on to the mounting plate so that the two arms on the mounting plate fit into two slots in the back of the detector.



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8. Ensure that the detector's power cord is located in the cord slot.
 9. Give the detector a short counter-clockwise twist to lock the detector in place.



If your detector is not horizontal, the mounting plate can be readjusted.

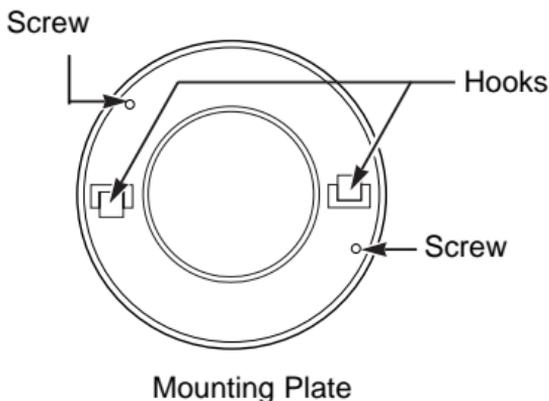
Wait for ten minutes before you test the detector (see page 12). During that time, the alarm may sound several times and the yellow (Malfunction) light may light up once or twice as the detector cleans the natural gas sensor. This will also occur if the power to the detector is interrupted.

FOR HARDWIRE MODEL NG400:

WARNING: The NG400 Natural Gas Detector is to be mounted onto a junction box within 30cm (12") of the ceiling, or on the ceiling itself. (Recommended practice, NFPA 720 Proposed Standard). This unit is for permanent connection **only** and should be installed by Qualified Service Personnel only. Do not connect wires to an AC outlet, extension cord, or power cord and attachment plug. This unit operates on 120V AC.

To install the Detector, please follow these steps:

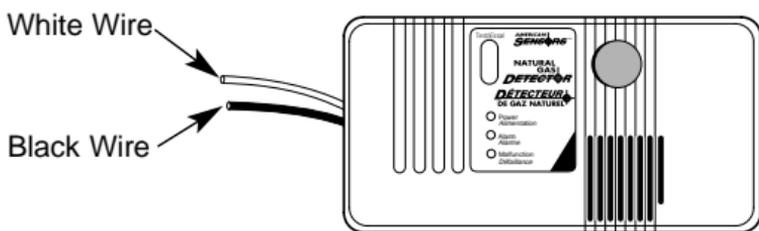
1. Make sure the AC power to the octagonal junction box is turned **off** at the **Fuse Box** or **Service Panel** before installation.
2. Install the mounting plate (supplied) to the junction box using the two 5/8 inch screws (supplied).



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3. Pull out the **white wire (neutral)** from the junction box through the mounting plate and connect it to the **white wire** of the Detector using a twist-on wire connector (supplied).

The method is as follows:

Strip both wires 12mm (1/2 inch). Keep the ends even. Hand twist the connector onto the wires as tightly as possible. Hold the connector and pull each wire to make sure no wire slips out. Make sure no bare wire is exposed outside the connector. Connect the **black wire (live)** from the junction box to the black wire of the Detector using a twist-on wire connector and the same method as above.



Detector Front View

4. Check all connections and carefully push the wires and wire connectors back into the junction box.

-
5. Push the Detector against the mounting plate with the 2 hooks in the mounting plate fitted into the 2 square holes in the Detector.
 6. Rotate the Detector **counterclockwise** until a clicking sound or two is heard. The Detector should now be secured in place.
 7. Turn back on the power at the fuse box or service panel.
 8. Leave the owner's manual behind in the original box for the end user.

Kit includes:

Plastic mounting plate, 1

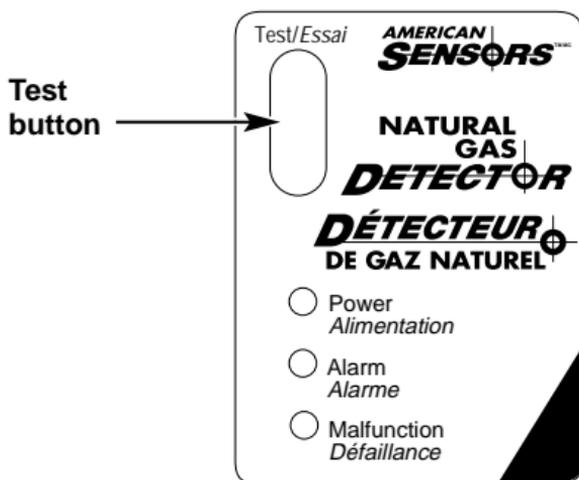
Marrette twist-on wire connectors, 2

5/8 inch square head screws, 2

Wait for ten minutes before you test the detector (see next page). During that time, the alarm may sound several times and the yellow (Malfunction) light may light up once or twice as the detector cleans the natural gas sensor. This will also occur if the power to the detector is interrupted.

How can you test the detector?

To test the detector (wait at least ten minutes after installing it), press the **Test** button. The alarm sounds.



To reset the alarm, unplug the detector (model NG200), wait ten seconds, then plug it in again.

For model NG400, turn off power at the fuse box or service panel instead of unplugging the unit.

The detector continually checks itself. If it finds a malfunction, the yellow light will illuminate and the unit will sound intermittently. If this occurs, call our Healthy Home Hotline at:

American Sensors 1-800-387-4219

How can you maintain your detector?

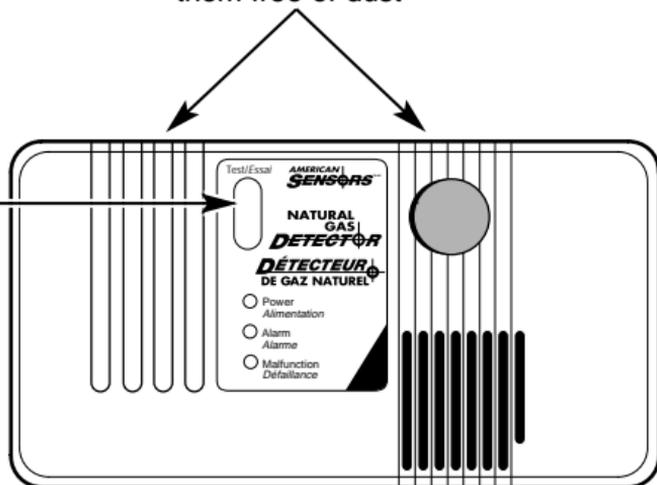
A detector is only useful if it works. The following illustration explains proper maintenance:

Air vents

Vacuum the air vents occasionally to keep them free of dust

Test button

Test the detector by pressing the Test button once a year.



Note: To reset the alarm, for model NG200, unplug the detector from the wall outlet, wait ten seconds, then plug it in again.

For model NG400, turn off power at fuse box or service panel instead of unplugging the unit.

What do the lights mean?

The detector has three lights

○ Power – Green

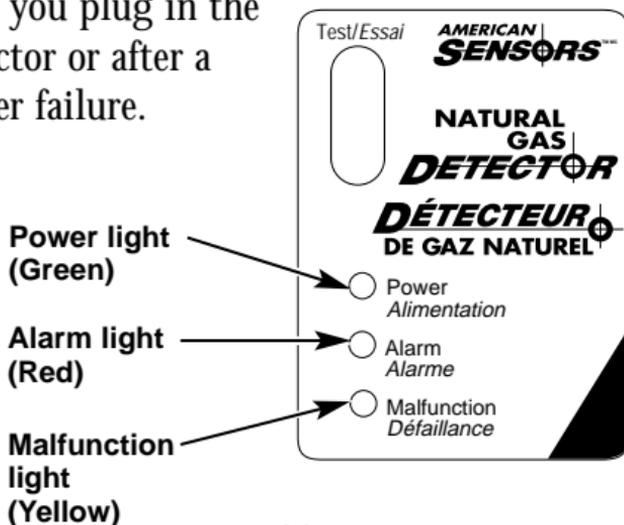
This lights up **green** when the detector has power. It is normal for this light to be on while the detector is plugged in.

○ Alarm – Red

This lights up **red** when the alarm sounds. It is normal for this light to turn on when you press the Test Button.

○ Malfunction – Yellow

This lights up **yellow** and the alarm sounds intermittently when the detector finds a malfunction while it is checking itself. It is normal for this light to turn on once or twice after you plug in the detector or after a power failure.





What should you do if the alarm sounds?

EVACUATE IMMEDIATELY!

Do a head count to check that everybody is accounted for. Call the fire department and ask them to determine the source of natural gas. Do not re-enter the premises until the problem has been corrected and the natural gas has been dispersed.

WARNING: Activation of this device indicates the presence of natural gas, which is flammable and can be fatal. The source of the natural gas may be an object such as a furnace, a vehicle, or other natural gas appliance.

Correction of the problem may require the services of a local natural gas company or contractor.

CAUTION: This detector will only indicate the presence of natural gas near the detector. Natural gas may be present in other areas.

Additional Information In Case of Alarm.

- **Evacuate The Premises Immediately If Unit is Alarming!**
- Do not enter home if unit is alarming.
- Do not unplug or disconnect detector if unit is alarming.
- Do not turn on or operate any electrical switches or appliances.
- Do a head count to check that everybody is accounted for.
- Call the gas utility company and ask them to determine the source of the gas.
- Do not re-enter the home until the problem has been corrected and the gas has been dispersed.

IMPORTANT:

This device is not suitable as a carbon monoxide detector or smoke/fire detector.
This device is not suitable for installation in a hazardous location, as defined in the National or Canadian Electrical Code.

What do you do after the problem has been corrected?



On re-entering the premises after an alarm:

1. Unplug the detector (NG200) for ten seconds, and then plug it in again.
For model NG400, use the fuse box or service panel to turn off power instead of unplugging the unit.
2. After ten minutes (during which the alarm may sound once or twice and the yellow light may flash), test the detector to make sure that the detector is working properly (see page 12).

Technical Information

Activation

Your NG200 or NG400 Natural Gas Detector uses a sensing technology that enables the detector to sound an alarm if the concentration of gas exceeds 25% of the Lower Explosive Level (LEL).

Exposure Times

- Units are calibrated to alarm at less than 25% LEL.
- Unit will alarm within 5 seconds of this threshold being reached.

Features	
Power Supply	NG200 120 VAC, 60 Hz, 7 W NG400 120 VAC, 60 Hz, 7W
Dimensions	16.5cm x 8.9cm x 3.5cm (6.5" x 3.5" x 1.375")
Recommended Operating Temperature	4.4°C to 37.8°C (40°F to 100°F)
Gas Detection Level	less than 25% LEL of natural gas
Lights	Power (green) Alarm (red) Malfunction (yellow)
Listings	UL Standard 1484 CSA Certified

Warranty Information

Limited Warranty

Dicon Global Inc. warrants its product, to the original consumer purchaser, the Natural Gas Detector to be free from defects in material and workmanship under normal use and service for a period of five (5) years from date of purchase. Dicon Global Inc. makes no other express warranty for this Natural Gas Detector. No agent, representative, dealer or employee of the Company has the authority to increase or alter the obligations or limitations of this Warranty. The company's obligation of this warranty shall be limited to the repair or replacement of any part of the detector which is found to be defective in materials or workmanship under normal use of service during the five (5) year period commencing with the date of purchase.

Units in need of repair should be returned to the point of purchase. Or call 1-800-387-4219, for shipping instructions and a returned goods authorization number, to return to Dicon Global Inc. Returned goods must be shipped prepaid.

The company shall not be obligated to repair or replace units which are found to be in need of repair because of damage, unreasonable use, modifications, or alterations occurring after the date of purchase.

The duration of any implied Warranty, including that of merchantability or fitness for any particular purpose, shall be limited to five (5) years on the detector commencing with the date of purchase. In no case shall the Company be liable for any consequential or incidental damages for breach of this or any other warranty, expressed or implied whatsoever, even if the loss or damage is caused by the Company's negligence or

fault. Some provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from province to province.

IMPORTANT:

Not suitable as a smoke detector or as a fire detector. This device is not suitable for installation in a hazardous location, as defined in the Canadian Electrical Code.



1 (800) 387-4219: 24-Hour "Healthy Home" Hotline

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