

USER'S MANUAL
CARBON MONOXIDE ALARM

10 YEAR SEALED BATTERY OPERATED CARBON MONOXIDE ALARM WITH DIGITAL DISPLAY AND SILENCE FEATURE

IMPORTANT! PLEASE READ CAREFULLY AND SAVE.

The warnings/limitations card and manual contain important information about your Carbon Monoxide (CO) Alarm's operation. If you are installing this CO Alarm for use by others, you must leave this manual—or a copy of it—with the end user. Reference product card for additional information.

Printed in Mexico

CONFORMS TO CSA 6.19-17

Model C09B10DA

900-00683-001-00 K3 03/26

HOW YOUR CO ALARM WORKS
GENERAL INFORMATION

- CO Alarm contains a sealed, non-replaceable battery. Once it reaches the end of its service life, or after 10 years—whichever comes first—you must install a new CO Alarm.
- High temperatures, low temperatures, high humidity, impact or dropping can adversely affect LCD displays.
- A CO Alarm measures the CO levels in the air. It will alarm if CO levels rise quickly (if the heat exchanger on your furnace breaks, for example, or if CO is consistently present (a slow CO leak on a fuel-burning appliance).
- This carbon monoxide alarm features a permanently installed sensor, digital display with blue backlight, and an 85 dB alarm horn. It also has a silence feature to temporarily quiet the alarm horn. During standby, the temperature is displayed in degrees C.

THE PARTS OF YOUR CO ALARM

- Test Button
- Activation + Deactivation tab (back of unit).
- Silence Button
- (Behind Cover) Alarm Horn: 85dB audible alarm for test, alarm, and unit malfunction warning.
- Peak level button.
- Digital Display with blue backlight.

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UNDERSTANDING YOUR CO ALARM

Display glows and horn chirps when Alarm is first activated.

DIGITAL DISPLAY. All segments are turned on for a short time upon initial power. Then the temperature is displayed in degrees C.

ALARM RECEIVING BATTERY POWER

Horn is silent. Temperature will be displayed in degrees C.

72°

During TESTING

One beep sounds when the button is pressed. It is later followed by a pattern of 4 beeps that sounds twice.

DIGITAL DISPLAY: Display glows and shows "test".

Several ppm CO levels are also displayed and the alarm level is shown increasing.

CO ALARM

Sensor has detected enough CO to trigger an alarm. Blue backlight glows and horn sounds loudly (repeating 4 beeps, pause). See "10 Year CO AlarmSounds" for details. During an alarm, move everyone to a source of fresh air. DO NOT move the CO Alarm!

DIGITAL DISPLAY: "CO" alternating with the ppm number, a full level, and "EVACUATE".

CO ALARM REQUIRES SERVICE (MALFUNCTION SIGNAL)

The horn sounds 3 "chirps" every minute. CO Alarm needs to be replaced.

DIGITAL DISPLAY: "Err" is displayed.

CO ALARM END OF LIFE

The horn sounds 3 chirps every minute. CO Alarm needs to be replaced.

DIGITAL DISPLAY: "End" is displayed.

USING THE PEAK CO MEMORY

The CO Memory Feature lets you check the highest level of CO recorded during an alarm.

NOTE: These bars will not appear when CO accumulation is low. The bars will be displayed when unit is exposed for a longer time and CO accumulation is higher.

TO CHECK CO MEMORY:

- Press and release the Test Button until the peak CO level is displayed.

TO CLEAR CO MEMORY:

- Automatically resets after 24 hours.
- a. Press and release Test Button until blue backlight glows. b. Press and release Test Button to enter "clear mode". c. Press and release Test Button quickly one more time to clear.
- NOTE: Must press and release. Press and hold will run into "Test Mode".
- NOTE: The highest CO level will be saved for 24 hours. DO NOT clear the CO Memory reading if you plan to call someone to investigate a CO problem! Clear the CO Memory reading only after the investigator has checked your home. If the investigator will not arrive within the 24-hour time period before the unit automatically resets, be sure to write down the peak level.

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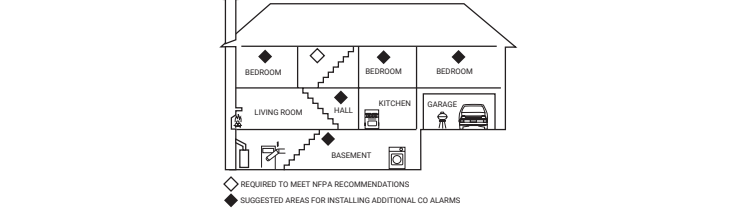
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INSTALLATION
WHERE TO INSTALL CO ALARMS

The National Fire Protection Association (NFPA) recommends that a CO Alarm should be centrally located outside of each separate sleeping area in the immediate vicinity of the bedrooms. For added protection, install additional CO Alarms in each separate bedroom, and on every level of your home. If your bedroom hallway is longer than 40 feet (12 meters), install a CO Alarm at BOTH ends of the hallway.



- In a Single-level Home:**
 - Install at least one CO Alarm near or within each separate sleeping area.
 - For added protection, install an additional CO Alarm at least 20 feet (6 meters) away from the furnace or fuel burning heat source.
- In a Multi-level Home:**
 - Install at least one CO Alarm near or within each separate sleeping area.
 - For added protection, install at least one CO Alarm on each level of the home. If you have a basement, install that CO Alarm at the top of the basement stairs.
 - For added protection, install an additional CO Alarm at least 20 feet (6 meters) away from the furnace or fuel burning heat source.
- In a Mobile Home:**
 - Install CO Alarms on inside walls ONLY. Uninsulated outside walls and roofs of mobile homes often transfer heat and cold from outdoors.

WHERE CO ALARMS SHOULD NOT BE INSTALLED

- DO NOT install this CO Alarm:**
 - In garages, kitchens, furnace rooms, or in any extremely dusty, dirty or greasy areas.
 - Closer than 20 feet (6 meters) from a furnace or other fuel burning heat source, or fuel burning appliances like a water heater.
 - Within 5 feet (1.5 meters) of any cooking appliance.
 - In extremely humid areas. This alarm should be at least 10 feet (3 meters) from a bath or shower, sauna, humidifier, vaporizer, dishwasher, laundry room, utility room or other source of high humidity. Constant exposure to high or low humidity may reduce battery life.
 - In areas where temperature is colder than 40° F (4.4° C) or hotter than 100° F (37.8° C). These areas include un-air-conditioned crawl spaces, unfinished attics, uninsulated or poorly insulated ceilings, porches, and garages.
 - In turbulent air, like near ceiling fans, heat vents, air conditioners, fresh air returns, or open windows. Blowing air may prevent CO from reaching the sensors.
 - In direct sunlight.

HOW TO INSTALL YOUR CO ALARM

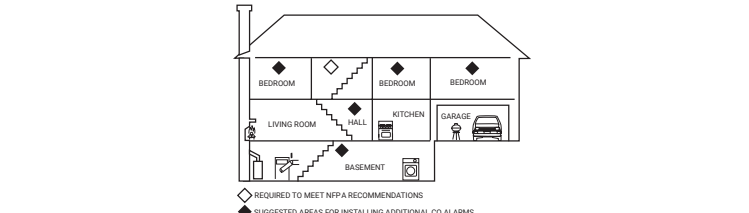
Read "Where To Install CO Alarms" before starting.

Before you start installation, find the pair of self-adhesive labels included with this CO Alarm. On each label write in the phone number of your emergency responder (i.e. 911) and a qualified service technician. Place one label near the CO Alarm and the other at the "fresh air" location where you plan to go if the alarm sounds.

- NOTE: Activate alarm prior to mounting.**
- 1. Activating the Battery.** Move the activation switch to ON position. Utilize a small tool to help activate switch if needed. Once unit is activated, it cannot be turned off.
- NOTE:** Horn chirps, and all segments are turned on for a short time upon activation.
- 2. Test the CO Alarm.** See "Weekly Testing".
- 3. To Permanently Deactivate the Alarm.** This CO Alarm contains a sealed, non-replaceable battery. Once it reaches the end of its service life, or after 10 years you must install a new CO Alarm. Deactivate the CO Alarm by inserting a tool below edge where shown and break tab. Then slide activation switch to DEACTIVATE mode.
- NOTE:** Once you deactivate this unit, it will not detect CO or alarm and cannot be reactivated.
- 4. This CO Alarm can either be wall mounted or placed on a tabletop.** If Alarm is placed on a tabletop, be sure the Alarm is no more than 3 feet (0.9 meter) from the floor to minimize the risk of causing permanent damage to the Alarm in the event that it is accidentally knocked to the ground.

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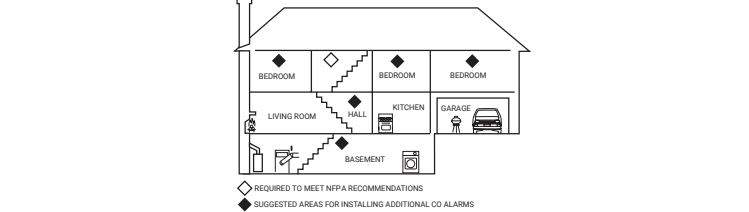
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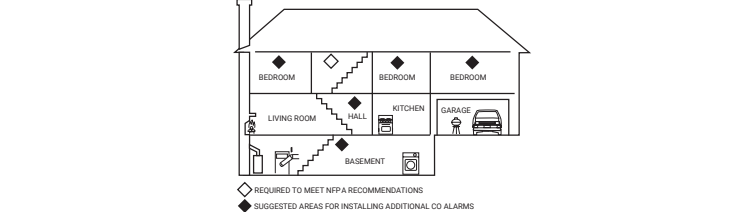
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HOW TO INSTALL YOUR CO ALARM

Read "Where To Install CO Alarms" before starting.

Before you start installation, find the pair of self-adhesive labels included with this CO Alarm. On each label write in the phone number of your emergency responder (i.e. 911) and a qualified service technician. Place one label near the CO Alarm and the other at the "fresh air" location where you plan to go if the alarm sounds.

- NOTE: Activate alarm prior to mounting.**
- 1. Activating the Battery.** Move the activation switch to ON position. Utilize a small tool to help activate switch if needed. Once unit is activated, it cannot be turned off.
- NOTE:** Horn chirps, and all segments are turned on for a short time upon activation.
- 2. Test the CO Alarm.** See "Weekly Testing".
- 3. To Permanently Deactivate the Alarm.** This CO Alarm contains a sealed, non-replaceable battery. Once it reaches the end of its service life, or after 10 years you must install a new CO Alarm. Deactivate the CO Alarm by inserting a tool below edge where shown and break tab. Then slide activation switch to DEACTIVATE mode.
- NOTE:** Once you deactivate this unit, it will not detect CO or alarm and cannot be reactivated.
- 4. This CO Alarm can either be wall mounted or placed on a tabletop.** If Alarm is placed on a tabletop, be sure the Alarm is no more than 3 feet (0.

SILENCING THE END OF LIFE SIGNAL

This silence feature can temporarily quiet the End of Life warning "chirp" for 8 hours up to 7 days. You can silence the End of Life warning "chirp" by pressing the Silence button. The horn will chirp, acknowledging that the End of Life feature has been activated.

TESTING & MAINTENANCE

WEEKLY TESTING

WARNING!

- Test the CO Alarm once a week. If the CO Alarm ever fails to test correctly, have it replaced immediately! If the CO Alarm is not working properly, it cannot alert you to a problem.
 - DO NOT stand close to the Alarm when the horn is sounding. Exposure to close range may be harmful to your hearing. When testing, step away when horn starts sounding.
 - You can test the CO Alarm by pressing the Test button on the Alarm cover until alarm chirps. The alarm horn will sound 4 beeps, a pause, then 4 beeps. The alarm sequence inoperates unless the unit does not alarm, make sure it has been activated correctly, and test again. If the unit still does not alarm, replace it immediately.
- WARNING!**
- DO NOT try to fix the Alarm yourself – this will void your warranty! If the CO Alarm is still not operating properly, and it is still under warranty, please see "How to Obtain Warranty Service" in the Limited Warranty. Install a new CO Alarm immediately.
 - NEVER use vehicle exhaust to test your Alarm! Exhaust may cause permanent damage and voids your warranty.

REGULAR MAINTENANCE

To keep the CO Alarm in good working order:

- Test it every week using the Test button.
- Vacuum the CO Alarm cover once a month, using the soft brush attachment. Never use water, cleaners, or solvents, since these may damage the unit.
- Test the CO Alarm again after vacuuming.

WARNING!

- Please dispose of or recycle the Alarm properly, following any local regulations. Consult your local waste management authority or recycling organization to find an electronics recycling facility in your area. DO NOT DISPOSE OF ALARM IN FIRE. BATTERIES MAY EXPLODE OR LEAK.
 - DO NOT spray cleaning chemicals or insect sprays directly on or near the CO Alarm. DO NOT point over the CO Alarm. Doing so may cause permanent damage.
- IMPORTANT!**
- Housed chemicals, aerosol chemicals, and other contaminants can affect the sensor. When using any of these materials near the CO Alarm, make sure the room is well ventilated.

WHAT YOU NEED TO KNOW ABOUT CO

WHAT IS CO?

CO is a invisible, tasteless gas produced when fossil fuels do not burn completely, or are exposed to heat (usually fire). Electrical appliances typically do not produce CO. These fuels include: Wood, coal, charcoal, oil, natural gas, gasoline, kerosene, and propane. Because CO may disappear by the time an investigator arrives, it may be difficult to locate the source of CO. BRK Brands, Inc. shall not be obligated to pay for any carbon monoxide investigation or service call.

Fire-burning appliances like: portable heaters, gas or wood burning fireplaces, gas kitchen range or cooktop, gas clothes dryer.

Damaged or insufficient venting: corroded or disconnected water heater vent pipes, leaking chimney pipes or flue, or cracked heat exchanger, blocked or clogged chimney opening.

Improper use of appliances/cloves: operating a barbecue grill or vehicle in an enclosed area (like a garage or screened porch).

Transient CO problems:"transient" or on-again-off-again CO problems can be caused by outdoor conditions and other special circumstances.

A CO Alarm is not a substitute for proper maintenance of home appliances.

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IMPORTANT!

THIS IS NOT A SMOKE ALARM!

This CO Alarm is designed to detect carbon monoxide from ANY source of combustion. It is NOT designed to detect smoke, fire, or any other gas. Dangers, Warnings, and Cautions alert you to important operating instructions or to potentially hazardous situations. Pay special attention to these items.

CAUTION!

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

WARNING!

- NEVER ignore your Carbon Monoxide Alarm! If it alarms. Refer to "To Your CO Alarm Sounds" for more information. Failure to do so can result in injury or death.
- Test the CO Alarm once a week. If the CO Alarm ever fails to test correctly, have it replaced immediately! If the CO Alarm is not working properly, it cannot alert you to a problem.
- This product is intended for use in ordinary indoor residential areas. It is not designed to measure compliance with commercial and industrial standards.
- This CO Alarm is designed for use inside a single-family home or apartment. It is not meant to be used in common lobbies, hallways, or basements of multi-family buildings unless working CO Alarms are also installed in each family living unit. CO Alarms in common areas may not be heard from inside individual family living units.
- This CO Alarm does not a suitable substitute for complex detection systems in places which house many people, like hotels or dormitories, unless a CO Alarm is also placed in each unit.
- DO NOT use this CO Alarm in warehouses, industrial or commercial buildings, special-purpose non-residential buildings, RVs, boats, or airplanes.
- This CO Alarm is specifically designed for residential use, and may not provide adequate protection in non-residential applications.
- This device is designed to protect individuals from the acute effects of carbon monoxide exposure. It will not fully safeguard individuals with specific medical conditions. If it does consult a medical practitioner.

WARNING!

Changes or modifications to the product, not expressly approved by Resideo Technologies, Inc. and its Affiliates, could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

WHAT LEVELS OF CO CAUSE AN ALARM?

Canadian Standards Association 6.19-17 requires residential CO Alarms to sound when exposed to levels of CO and exposure times as described below. They are measured in parts per million (ppm) of CO over time (in minutes).

CSA 6.19 Required Alarm Point*:

- If the alarm is exposed to 400 ppm of CO, IT MUST ALARM BETWEEN 4 and 15 MINUTES.
- If the alarm is exposed to 150 ppm of CO, IT MUST ALARM BETWEEN 10 and 50 MINUTES.
- If the alarm is exposed to 70 ppm of CO, IT MUST ALARM BETWEEN 40 and 240 MINUTES.

* Approximately 10% COH exposure at levels of 10% to 95% Relative Humidity (RH).

The unit is designed not to alarm when exposed to a constant level of 30 ppm for 30 days. CO Alarms are designed to alarm before there is an immediate life threat. Since you cannot see or smell CO, never assume it's not present.

- An exposure to 100 ppm of CO for 30 minutes may not affect average, healthy adults, but after 4 hours the same level may cause headaches.
- An exposure to 400 ppm of CO may cause headaches in average, healthy adults after 35 minutes, but can cause death after 2 hours.

This CO Alarm measures exposure to CO over time. If CO levels are extremely high in a short period of time, or if CO levels reach a certain minimum over a long period of time, the CO Alarm generally sounds an alarm before the onset of symptoms in average, healthy adults.

GAS DETECTION AT TYPICAL TEMPERATURE AND HUMIDITY RANGES:

The CO Alarm is not formulated to detect CO levels below 30 ppm typically. LT, tested for false alarm resistance to Methane (500 ppm), Butane (300 ppm), Ethyl Acetate (200 ppm), Isopropyl Alcohol (200 ppm) and Carbon Dioxide (5000 ppm). Values measure gas and vapor concentrations in parts per million. Audible Alarm: 85 dB minimum at 10 feet (3 meters).

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SYMPTOMS OF CO POISONING

The following symptoms may be related to CARBON MONOXIDE POISONING and should be discussed with ALL members of the household.

Mild exposure: Headaches, running nose, sore eyes, often described as "flu"-like symptoms.
Medium exposure: Dizziness, drowsiness, vomiting.
Extreme exposure: Unconsciousness, brain damage, 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.

Some individuals are more sensitive to CO than others, including people with cardiac or respiratory problems, infants, unborn babies, pregnant mothers, or elderly people can be more quickly and severely affected by CO. Members of sensitive populations should consult their doctors for advice on taking additional precautions.

THE FOLLOWING CONDITIONS CAN RESULT IN TRANSIENT CO SITUATIONS:

- Excessive exposure or reverse venting of fuel appliances caused by outdoor conditions such as:
 - Wind direction and/or velocity, including high gusty winds. Heavy air in the vent pipes (cold/humid air with extended periods between cycles).
 - Negative pressure differential resulting from the use of exhaust fans.
 - Several appliances running at the same time competing for limited fresh 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 (rangs, ovens, fireplace).
- Temperature inversions, which can trap exhaust close to the ground.
- Car idling in an open or closed attached garage, or near a home.

GENERAL LIMITATIONS OF CO ALARMS

This CO Alarm is intended for residential use. It is not intended for use in industrial applications where Occupational Safety and Health Administration (OSHA) requirements for carbon monoxide detectors must be met.

CO alarms may not wake all individuals. If children or others do not readily wake to the sound of the CO Alarm, or if there are infants or family members with mobility limitations, make sure that someone is assigned to assist them in the event of an emergency.

CO Alarms will not work without power. This Alarm contains a sealed, non-replaceable battery.

CO Alarms for Solar or Wind Energy users and battery backup power systems: AC powered CO Alarms should only be operated with true or pure sine wave inverters. Operating this Alarm with most battery-powered UPS (uninterruptible power supply) products or square wave or "quasi sine wave" inverters will damage the Alarm. If you are not sure about your inverter or UPS type, please consult with the manufacturer to verify.

This CO Alarm will not sense carbon monoxide that does not reach the sensor. This CO Alarm will only sense CO at the sensor. CO may be present in other areas. Doors or other obstructions may affect the rate at which CO reaches the CO Alarm. For this reason, if bedroom doors are usually closed at night, we recommend you install a CO Alarm in each bedroom and in the hallway between them.

CO Alarms may not sense CO on another level of the home. For example, a CO Alarm on the second level, near the bedrooms, may not sense CO in the basement. For this reason, one CO Alarm may not give adequate warning. Complete coverage is recommended. Place CO Alarms on each level of the home.

CO Alarms may not be heard. The alarm horn broadcasts meters or exceeds current UL standards of 85 dB at 10 feet (3 meters). However, if the CO Alarm is installed outside the bedroom, it may not wake a sound sleeper or one who has recently used drugs or has been drinking alcoholic beverages. This is especially true if the door is closed or only partly open. Even persons who are awake may not hear the alarm horn if the sound is blocked by distance or closed doors. Noise from traffic, stereo, radio, television, air conditioner, or other appliances may also prevent alert persons from hearing the alarm horn. This CO Alarm is not intended for people who are hearing impaired.

CO Alarms are not a substitute for a smoke alarm. Although fire is a source of carbon monoxide, the CO Alarm does not sense smoke or fire. This CO Alarm senses CO that may be escaping unnoticed from malfunctioning furnaces, appliances, or other sources. Early warning of fire requires the installation of smoke alarms.

CO Alarms are not a substitute for fire insurance. Though these CO Alarms warn against increasing CO levels, BRK Brands, Inc. does not warrant or imply in any way that they will protect lives from CO poisoning. Homeowners and renters must still insure their lives.

CO Alarms have a limited life. Although the CO Alarm and all of its parts have passed many stringent tests and are designed to be as reliable as possible, any of these parts could fail at any time. Therefore, you must test your CO Alarm weekly.

CO Alarms are not foolproof. Like all other electronic devices, CO Alarms have limitations. They can only detect CO that reaches their sensors. They may not give early warning to rising CO levels if the CO is coming from a remote part of the home, away from the CO Alarm.

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CO Alarms are not foolproof. Like all other electronic devices, CO Alarms have limitations. They can only detect CO that reaches their sensors. They may not give early warning to rising CO levels if the CO is coming from a remote part of the home, away from the CO Alarm.

SYMPTOMS OF CO POISONING

The following symptoms may be related to CARBON MONOXIDE POISONING and should be discussed with ALL members of the household.

Mild exposure: Headaches, running nose, sore eyes, often described as "flu"-like symptoms.
Medium exposure: Dizziness, drowsiness, vomiting.
Extreme exposure: Unconsciousness, brain damage, 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.

Some individuals are more sensitive to CO than others, including people with cardiac or respiratory problems, infants, unborn babies, pregnant mothers, or elderly people can be more quickly and severely affected by CO. Members of sensitive populations should consult their doctors for advice on taking additional precautions.

THE FOLLOWING CONDITIONS CAN RESULT IN TRANSIENT CO SITUATIONS:

- Excessive exposure or reverse venting of fuel appliances caused by outdoor conditions such as:
 - Wind direction and/or velocity, including high gusty winds. Heavy air in the vent pipes (cold/humid air with extended periods between cycles).
 - Negative pressure differential resulting from the use of exhaust fans.
 - Several appliances running at the same time competing for limited fresh 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 (rangs, ovens, fireplace).
- Temperature inversions, which can trap exhaust close to the ground.
- Car idling in an open or closed attached garage, or near a home.

GENERAL LIMITATIONS OF CO ALARMS

This CO Alarm is intended for residential use. It is not intended for use in industrial applications where Occupational Safety and Health Administration (OSHA) requirements for carbon monoxide detectors must be met.

CO alarms may not wake all individuals. If children or others do not readily wake to the sound of the CO Alarm, or if there are infants or family members with mobility limitations, make sure that someone is assigned to assist them in the event of an emergency.

CO Alarms will not work without power. This Alarm contains a sealed, non-replaceable battery.

CO Alarms for Solar or Wind Energy users and battery backup power systems: AC powered CO Alarms should only be operated with true or pure sine wave inverters. Operating this Alarm with most battery-powered UPS (uninterruptible power supply) products or square wave or "quasi sine wave" inverters will damage the Alarm. If you are not sure about your inverter or UPS type, please consult with the manufacturer to verify.

This CO Alarm will not sense carbon monoxide that does not reach the sensor. This CO Alarm will only sense CO at the sensor. CO may be present in other areas. Doors or other obstructions may affect the rate at which CO reaches the CO Alarm. For this reason, if bedroom doors are usually closed at night, we recommend you install a CO Alarm in each bedroom and in the hallway between them.

CO Alarms may not sense CO on another level of the home. For example, a CO Alarm on the second level, near the bedrooms, may not sense CO in the basement. For this reason, one CO Alarm may not give adequate warning. Complete coverage is recommended. Place CO Alarms on each level of the home.

CO Alarms may not be heard. The alarm horn broadcasts meters or exceeds current UL standards of 85 dB at 10 feet (3 meters). However, if the CO Alarm is installed outside the bedroom, it may not wake a sound sleeper or one who has recently used drugs or has been drinking alcoholic beverages. This is especially true if the door is closed or only partly open. Even persons who are awake may