

## IF YOUR CO ALARM SOUNDS

### WARNING!

Activation of your CO Alarm indicates the presence of carbon monoxide (CO) which can kill you. When your CO Alarm sounds, you must not ignore it!

### IF THE ALARM SOUNDS:

1. Operate the Test/Silence button to silence the alarm.
2. Call your emergency services, fire department or 911. Write down the number of your local emergency service here:
3. Immediately move to fresh air—outdoors or by an open door or 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 or window until the emergency services responder has arrived, the premises have been aired out, and your CO Alarm remains in its normal condition.
4. After following steps 1-3, if your CO 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. Write down the number of a qualified appliance technician here:

### WARNING!

Alarms have various limitations. See "General Limitations of CO Alarms" for details.

## USING THE SILENCE FEATURES

### WARNING!

NEVER disconnect the power to your CO Alarm to silence the horn—use the silence feature. Disconnecting the CO Alarm removes your protection! See previous page for details on responding to an alarm.

The Silence Feature is intended to temporarily silence your CO Alarm's alarm horn while you correct the problem—it will not correct a CO problem. While the Silence Feature is active, you must monitor the air for CO. When the Silence alarm level, the unit will sound—repeating horn pattern: 4 beeps, a pause, 4 beeps, etc. Press and hold the Test/Silence button until the horn is silent. The Silence cycle will last approximately 4 minutes.

To silence an interconnected series of Alarms, you must press the Test/Silence button on the initiating alarm (the unit with the flashing red light), if you press the Test/Silence on any other Alarm, it will only silence that unit, not the whole interconnected series.

NOTE: After the 4-minute silence cycle, the CO Alarm re-activates present CO levels and responds accordingly. If CO levels remain potentially dangerous—or start rising higher—the horn will start sounding again.

### While the CO Alarm is silenced:

If the CO Alarm is silent for only 4 minutes, then starts sounding loudly—4 beeps, then a pause, 4 beeps, then a pause. Red light (LED) continues flashing... This means...CO levels are still potentially dangerous.

If the CO Alarm remains silent...

This means...unit has returned to normal operation.

## SILENCING THE LOW BATTERY WARNING

This silence feature can temporarily quiet the low battery warning "chirp" for up to 8 hours if AC power is present. Press the Test/Silence button on the alarm cover. Once the low battery warning "chirp" silence feature is activated, the unit continues to flash the red light once a minute for 8 hours. After 8 hours, the low battery "chirp" will resume. Replace the battery as soon as possible, to maintain protection in the event of a power outage.

## LATCHING FEATURES

Alarm Latch is activated after an Alarm is exposed to alarm levels of carbon monoxide. The Alarm Latch will work with AC power. After CO levels drop below alarm levels, the Red LED will begin to flash on for 2 seconds and Off for 2 seconds. It will continue to flash or "latch" until you clear it by testing the Alarm.

This feature helps emergency responders, investigators, or service technicians identify which unit(s) in your home were exposed to alarm levels of carbon monoxide. This can help investigators pinpoint the source of CO.

Interconnected Alarms. Latching Alarm Indicator shows which Alarm(s) in the series were exposed to alarm levels of carbon monoxide. The Latching Alarm Indicator stays ON until you clear it, so it can alert you to a CO Alarm that occurred while you were away from home, even though you CO present in the air has dropped below alarm levels.

Low Battery Latch is activated when the Alarm is in the "low battery condition" when this occurs, the red LED flashes 4 seconds ON/2 seconds Off. This feature is designed to help you identify which Alarm needs to have the battery replaced. Although, the Alarm will sound the low battery chirp every time you test the battery. The battery changes through the initial stages of "low battery", the Alarm will chirp in greater intervals than one minute, sometimes up to several hours, until the battery reaches a steady low battery level. This feature helps alleviate the frustration of waiting for and/or identifying which unit is chirping.

## WEEKLY TESTING

Push and hold the Test/Silence button until you hear an acknowledge chirp and a loud alarm sounds — 4 beeps, pause, 4 beeps. This sequence should last for 10 seconds. If the Alarm ever fails to test properly, replace it immediately. If the Alarm is not working properly, refer to "Limited Warranty".

### WARNING!

- If the Alarm ever fails to test properly, replace it immediately. Products under warranty may be returned to the manufacturer for replacement. See "Limited Warranty" at the end of this manual.
- DO NOT stand close to the Alarm when the horn is sounding. Exposure at close range may be harmful to your hearing. When testing, step away when horn starts sounding.
- NEVER use vehicle exhaust! Exhaust may cause permanent damage and voids your warranty.

## REGULAR MAINTENANCE

To keep the CO Alarm working properly:

- Test it every week as described in "Weekly Testing."
- Vacuum the CO Alarm cover at least once a month, using the soft brush attachment. Never use liquid cleaners, since they may damage the unit. Test the Alarm again after vacuuming.
- Replace the battery immediately when you see/hear the "Low Battery Warning".

### The Low (or Missing) Battery Warning (CO5120PDBN):

The horn will "chirp" once a minute and the word "bat" will flash on and off on the display.

## REPLACING THE BATTERY

Choosing a replacement battery: This unit requires one standard 9V alkaline battery. The following alkaline batteries are acceptable as replacements: Duracell® MN1604 or MX1604, Eveready® Energizer® CO. These replacement batteries are commonly available at local retail stores.

### IMPORTANT!

Use only the alkaline or lithium replacement batteries listed. The unit may operate properly with other batteries. Never use rechargeable batteries since they may not provide a constant charge.

**CAUTION!** DO NOT spray cleaning chemicals or insect sprays directly on or near the CO Alarm. DO NOT paint over the CO Alarm. Doing so may cause permanent damage.

### IMPORTANT!

- Household cleaners, 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.
- If your home is being fumigated, unplug the unit temporarily and put it where it will not be exposed to chemicals or fumes. When fumigation is complete and all traces of fumes clear, plug the unit back in and reset it.

## WHAT YOU NEED TO KNOW ABOUT CO

### WHAT IS CO?

CO 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 CO.

These fuels include: Wood, coal, charcoal, oil, natural gas, gasoline, kerosene, and propane.

Common appliances are often sources of CO. If they are not properly maintained, are improperly ventilated, or not cleaned regularly, they can be a danger. CO is a real danger now that homes are more energy efficient. "Air-tight" homes with added insulation, sealed windows, and other weatherproofing can "trap" CO inside.

## SYMPTOMS OF CO POISONING

A CO Alarm is an excellent means of protection. It monitors the air and sounds a loud alarm before carbon monoxide levels become threatening for average, healthy adults.

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

To help prevent CO problems and reduce the risk of CO poisoning:

- Clean chimneys and flues yearly. Keep them free of debris, leaves, and nests for proper air flow. Also, have a professional check for rust and corrosion, cracks, or separations. These conditions can prevent proper air movement and cause backdrafting. Never "cap" or cover a chimney in any way that would block off the top.
- Test and maintain all fuel-burning equipment annually. Many local gas or oil companies and HVAC companies offer appliance inspections for a nominal fee.
- Make regular visual inspections of all fuel-burning appliances. Check appliances for excessive rust and scaling. Also check the flame on the burner and pilot lights. The flame should be blue. A yellow flame means fuel is not being burned completely and could be causing CO problems. A gas blower door on the furnace closed. Use vents or fans when they are available on all fuel-burning appliances. Make sure appliances are vented to the outdoors. Do not use gas grills or barbecue indoors, or in garages or on screen porches.
- Check for exhaust backflow from CO sources. Check the draft hood on an operating furnace for a backdraft. Look for cracks on furnace heat exchangers.
- Check the house or garage on the other side of shared wall.
- Check windows and doors open slightly. If you suspect that CO is escaping into your home, open a window or a door. Opening windows and doors can significantly decrease CO levels.

### IMPORTANT!

CO Alarm! Measurements exposure to CO over time. If alarms 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 when the onset of symptoms is severe, or health risks are high. Why is this important? Because you need to be warned of a potential CO problem while you can still react in time. In many reported cases of CO exposure, victims may be aware that they are not feeling well, but become disoriented and can no longer react well to exit the building or get help. Also, young children and pets may be the first affected. The average healthy adult might not feel any symptoms when the CO Alarm sounds. For children, people with chronic respiratory problems, infants, unborn babies, pregnant mothers, or elderly people can be more quickly and severely affected by CO. If you experience even mild symptoms of CO poisoning, consult your doctor immediately!

## FINDING THE SOURCE OF CO AFTER AN ALARM

Carbon monoxide is an odorless, invisible gas, which often makes it difficult to locate the source of CO after an alarm. These are a few of the factors that can make it difficult to locate sources of CO:

- House well ventilated before the investigator arrives.
- Problem caused by "backdrafting."
- Transient CO problem caused by special circumstances.

Because CO may dissipate 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.

## POTENTIAL SOURCES OF CO IN THE HOME

### Fuel-burning appliances like:

portable heater, gas or wood burning fireplace, gas kitchen range or cooktop, gas clothes dryer.

### Damaged or insufficient venting:

corroded or disconnected water heater vent pipe, leaking chimney pipe or flue, blocked heat exchanger, blocked or clogged chimney opening.

### Improper use of appliance/

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.

### The following conditions can result in transient CO situations:

1. Excessive spillage or reverse venting of fuel appliances caused by outdoor wind 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.
2. Extended operation of unvented fuel burning devices (range, oven, fireplace).
  3. Temperature inversions, which can trap exhaust close to the ground.
  4. Car idling in an open or closed attached garage, or near a home.

These conditions are dangerous because they can trap exhaust in your home. Since these conditions can come and go, they are also hard to recreate during a CO investigation.

## 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) commercial or industrial standards 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, you must take sure that someone is assigned to assist them in the event of an emergency.

CO Alarms will not work without power. This CO Alarm requires a continuous supply of AC power, and a fresh, correctly installed 9V battery to power the battery back-up. The battery back-up is for emergency use only.

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 CO 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.

## HOW CAN I PROTECT MY FAMILY?

A CO Alarm is an excellent means of protection. It monitors the air and sounds a loud alarm before carbon monoxide levels become threatening for average, healthy adults.

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

To help prevent CO problems and reduce the risk of CO poisoning:

- Clean chimneys and flues yearly. Keep them free of debris, leaves, and nests for proper air flow. Also, have a professional check for rust and corrosion, cracks, or separations. These conditions can prevent proper air movement and cause backdrafting. Never "cap" or cover a chimney in any way that would block off the top.
- Test and maintain all fuel-burning equipment annually. Many local gas or oil companies and HVAC companies offer appliance inspections for a nominal fee.
- Make regular visual inspections of all fuel-burning appliances. Check appliances for excessive rust and scaling. Also check the flame on the burner and pilot lights. The flame should be blue. A yellow flame means fuel is not being burned completely and could be causing CO problems. A gas blower door on the furnace closed. Use vents or fans when they are available on all fuel-burning appliances. Make sure appliances are vented to the outdoors. Do not use gas grills or barbecue indoors, or in garages or on screen porches.
- Check for exhaust backflow from CO sources. Check the draft hood on an operating furnace for a backdraft. Look for cracks on furnace heat exchangers.
- Check the house or garage on the other side of shared wall.
- Check windows and doors open slightly. If you suspect that CO is escaping into your home, open a window or a door. Opening windows and doors can significantly decrease CO levels.

## UNDERWRITERS LABORATORIES INC. UL2034

### WHAT LEVELS OF CO CAUSE AN ALARM?

Underwriters Laboratories Inc. Standard UL2034 requires residential CO detectors 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).

### UL2034 Required Alarm Points:

- If the Alarm is exposed to 400 ppm of CO, IT MUST ALARM BETWEEN 10 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 60 and 240 MINUTES.

\* Approximately 10% COHb 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.

### IMPORTANT!

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 20 minutes may not affect average, healthy adults, but extended exposure may cause headaches.
- An exposure to 100 ppm of CO may cause headaches in people with healthy adults after 35 minutes, but can cause death after 2 hours.

Standards: Underwriters Laboratories Inc. Single and Multiple Station carbon monoxide alarms UL2034.

According to Underwriters Laboratories Inc. UL2034, Section 1-1.2: "Carbon monoxide alarm coverage and testing requirements are intended to respond to the presence of carbon monoxide from sources such as, but not limited to, exhaust from internal-combustion engines, abnormal operation of fuel-fired water heaters, and fireplaces. CO Alarms are intended to alarm at carbon monoxide levels below those that could cause a loss of ability to react to the dangers of Carbon Monoxide exposure." This CO Alarm monitors the air at the Alarm, and is designed to alarm before CO levels become life threatening. This allows you to correct the problem before it occurs and contact the problem. This is only possible if Alarms are located, installed, and maintained as described in this manual.

**Gas Detection at Typical Temperature and Humidity Ranges:** The CO Alarm is not formulated to detect CO levels below 30 ppm typically. UL tested for false alarm resistance to Methane (500 ppm), Butane (300 ppm), Heptane (500 ppm), 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 (3 meters).

## CO ALARMS

CO Alarms may not be heard. The Alarm horn loudness meets 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 up 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 usually able to hear the alarm may not wake up if the alarm is located at a 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.

CO Alarms are not a substitute for a smoke alarm. Although fire is a source of carbon monoxide, this CO Alarm does not sense smoke or fire. This CO Alarm is not a substitute for a smoke alarm. This CO Alarm is designed to sense CO from furnaces, appliances, or other sources. Early warning of fire requires the installation of smoke alarms.

CO Alarms are not a substitute for life 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.

## TROUBLESHOOTING GUIDE

**ADANGER!** ELECTRICAL SHOCK HAZARD. Turn off the power to the area where the CO Alarm is installed BEFORE removing it from the mounting bracket or checking any electrical connections! Failure to turn off the power first may result in serious electrical shock, injury or death.

Problem...	If the Alarm...	You should...
Red light is OFF. Unit will not alarm when you press the Test/Silence button.	Unit may not be receiving any power.	Check the AC power supply. Make sure the power connector is securely attached to the Alarm. Make sure a fresh 9V battery is installed to power the battery back-up.
Red light flashes once a minute (horn is silent). (CO5120PDBN display reads "bat").	Alarm is not receiving AC power.	Unit is operating on DC battery back-up. Check the AC power supply.

The red light flashes and the horn "chirps" once a minute. (CO5120PDBN display flashes "bat").	Low battery warning.	Replace the 9V battery in the battery back-up. Disconnect AC power before changing the battery.
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Once a minute, the alarm sounds 3 quick "chirps", and the red light flashes quickly three times. (CO5120PDBN display reads "Err").

**MALFUNCTION SIGNAL.** Based on its Self Test diagnostics, the unit has detected a malfunction. The unit needs to be replaced.

CO Alarm goes back into alarm 4 minutes after you press the Test/Silence button.

CO levels are still potentially dangerous.

Refer to "If Your CO Alarm Sounds" for details on how to respond to an alarm. If anyone is feeling ill, EVACUATE your home immediately and call 911.

Relocate your Alarm. If frequent alarms continue, have home checked for potential CO problems. You may be experiencing an intermittent CO problem.

## LIMITED WARRANTY

BRK Brands, Inc., ("BRK") the maker of First Alert® brand products warrants that for a period of five years from the date of purchase, this product will be free from defects in material and workmanship. BRK, at its option, will repair or replace this product or any component of the product found to be defective during the warranty period. Replacement will be made with a new or remanufactured product or component. If the product is no longer available, replacement may be made with a similar product of equal or greater value. This is your exclusive warranty. This warranty is valid for the original retail purchaser and is not transferable. Keep the original sales receipt. Proof of purchase is required to obtain warranty performance. BRK dealers, service centers, or retail stores selling BRK products do not have the right to alter, modify or any way change the terms and conditions of this warranty.

This warranty does not cover normal wear of parts or damage resulting from any of the following: negligent use or misuse of the product, use on improper voltage or current, use contrary to the operating instructions, disassembly, repair or alteration by anyone other than BRK or an authorized service center. Further, the warranty does not cover Acts of God, such as fire, flood, hurricanes and tornadoes or any batteries that are included with this unit.

BRK shall not be liable for any incidental or consequential damages caused by the breach of any express or implied warranty. Except to the extent prohibited by applicable law, any implied warranty of merchantability or fitness for a particular purpose is limited to the duration of the above warranty. Some states, provinces and jurisdictions do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or province to province.

### How to Obtain Warranty Service

Service: If service is required, do not return the product to your retailer. In order to obtain warranty service, contact the Consumer Affairs Division at 1-800-323-9005, 7:30 AM - 5:00 PM Central Standard Time, Monday through Friday. To assist us in serving you, please have the model number and date of purchase available when calling. For Warranty Service return to: BRK Brands, Inc., 25 Spru Drive, El Paso, TX 79006

**Battery:** BRK Brands, Inc. make no warranty, express or implied, written or oral, including that of merchantability or fitness for any particular purpose with respect to battery.

For your records, please record:	Replacement date is five years after installation: _____ / _____ / _____ Month/Year
Date Purchased: _____ Where Purchased: _____	NOTE: End of Life Signal — Once the unit reaches the end of its lifecycle, the MALFUNCTION SIGNAL will sound once a minute to indicate the need to immediately replace the Alarm.
Date Installed: _____ Month/Year	

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## USER'S MANUAL

### AC POWERED CARBON MONOXIDE ALARM

120VAC ~, 60Hz, 0.09A

Alarm operating on AC power. Alarm operating on emergency battery back-up. Low / missing battery warning. "Err" Alarm is not operating properly.

During Testing, the display flashes "30, 70, 150, 400" briefly. During initial power up display flashes "888" briefly.

Levels of CO shown in ppm if present.

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

To check CO Memory:  
1. Press and release the Test/Silence/Scroll button until the dash scrolls to "MEMORY".  
2. Press and hold Test/Silence/Scroll button to display Memory CO level.

To clear CO Memory:  
1. Press and release the Test/Silence/Scroll button until the dash scrolls to "CLEAR MEMORY".  
2. Press and hold the Test/Silence/Scroll button until the display shows "CLR".  
NOTE: The highest CO level will be saved, even after a power interruption, until you clear it. 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.

**SMART INTERCONNECT FEATURE**  
This CO Alarm includes "Smart Interconnect" which enables the Alarm to be interconnected with other BRK Smoke and CO Alarms. When interconnected to Smoke Alarms that go into alarm, this CO Alarm will sound the smoke horn pattern.

**IMPORTANT! PLEASE READ CAREFULLY AND SAVE.**  
This user's manual contains important information about your CO Alarm. 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.

LISTED TO UL 2034 STANDARD

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## INTRODUCTION

Thank you for choosing BRK Brands, Inc. for your Carbon Monoxide Alarm. You have purchased a state-of-the-art Carbon Monoxide Alarm designed to provide you with early warning of carbon monoxide.

### Key features include:

**Most Accurate Carbon Monoxide Sensor\***  
Advanced electrochemical sensor technology.

**Intelligent Sensing Technology** is designed to help reduce unwanted or nuisance alarms.

**Two Silence Features.** Temporarily silence low battery chirp for up to eight hours before replacing low battery or silence an unwanted alarm for several minutes.

**Two Latching Features.** Alarm Latch: Easily identifies initiating alarm even after alarm condition has subsided. Low Battery Latch: Identifies which unit is in low battery condition.

**Smart Interconnect** interconnects with most First Alert® and BRK branded smoke, CO and heat alarms. When interconnected with alarming smoke alarms, unit will sound smoke horn pattern.

**Dust cover** is included to keep the alarm clean during construction.

**Easy Installation/Maintenance** features include a large opening in the mounting bracket for easy access to wiring. A battery pull tab keeps the battery fresh until the home is occupied. A Side Load Battery Drawers for easy battery replacement without removing the alarm from the ceiling or wall.

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## BASIC SAFETY INFORMATION

### IMPORTANT!

- Dangers, Warnings, and Cautions alert you to important operating instructions or to potentially hazardous situations. Pay special attention to these items.
- **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.
- **This CO Alarm is approved for use in single-family residences. It is NOT designed for marine or RV use.**

### CAUTION!

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

### WARNING!

- **This unit does not work without power. If the AC power fails, the battery back-up will power the alarm for at least 7 days provided the 9V battery is fresh and correctly installed.**
- **The Silence Feature is for your convenience only and will not correct a CO problem. Always check your home for a potential problem after any alarm. Failure to do so can result in injury or death.**
- **This CO Alarm should receive continuous 120VAC, 60 Hz, pure sine wave electrical power. (The battery is meant for emergency back-up only). Do not use in an extension cord or out controlled by a dimmer or switch.**
- **NEVER ignore any alarm. See "If Your CO Alarm Sounds" for more information on how to respond to an alarm. Failure to respond can result in injury or death.**
- **Test this Carbon Monoxide Alarm once a week. If it 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 locations of family living units. It is not designed to measure CO 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 condition contact your physician.**

## HOW YOUR CO ALARM WORKS

The Cover Of Your CO Alarm

1. Test/Silence/Scroll or Test/Silence/Scroll Button (CO5120PDBN only)	
2. POWER/ALARM Light (RED)	
3. Air Vents	
4. (Behind the Cover) Alarm Horn: 85 dB audible alarm for test, alarm, and unit malfunction warning.	
5. Digital Display (CO5120PDBN only)	

## UNDERSTANDING THE LIGHT AND HORN PATTERNS

Condition	LED (Red Light)	Horn
POWER UP	On continuously with AC. Flash a minute with battery	Silent
DURING TESTING	LED flashes approximating the horn pattern.	Horn pattern: 4 beeps, pause, 4 beeps, pause, repeating
LOW OR MISSING BATTERY	Low battery Latch Pattern	Horn "chirps" once a minute
WARNING: When the AC power is Off, if the battery is dead or missing, the CO Alarm cannot work.		
ALARM CONDITION Single CO Alarm (Stand alone Alarm)	LED flashes approximating the horn pattern.	Horn pattern: 4 beeps, pause, 4 beeps, pause, repeating
ALARM CONDITION (Interconnected Series of CO Alarms)	LED flashes rapidly on the unit(s) that triggered the alarm. LEDs on the other Alarms in the series will not flash.	Horn pattern: 4 beeps, pause, repeating on all CO Alarms
ALARM SILENCE	LED flashes approximating the horn pattern.	