EN 50291-1: 2010
Licence No: KM 98848

Carbon Monoxide Alarm
User's Guide

Models: **8LLCO and 8LLDCO (with digital display)**

Model: 8LLCO

Model: 8LLDCO
with Digital Display

ATTENTION: Please take a few minutes to thoroughly read this user's guide which should be saved for future reference and passed on to any subsequent owner.

Manual P/N 2535-7201-00 Rev D

What to do When the Alarm Sounds!

Carbon Monoxide Alarm Procedure

WARNING: Activation of the CO Alarm indicates the presence of Carbon Monoxide (CO) which can kill you.

If alarm sounds (4 loud audible pulses followed by a pause for 5 seconds):

1) 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 nor move away from the open door/window until the emergency services responders have arrived, the premises have been aired out, and your alarm remains in its normal condition.

2) Call Gas Emergency Services: 0800 111 999 , or your local Gas Safe Registered Engineer:

PHONE NUMBER:

Never restart the source of a CO problem until it has been corrected. Never ignore the sound of the alarm!

If the alarm is sounding, pressing the test/reset button will terminate the alarm. If the CO condition that caused the alert in the first place continues, the alarm will reactivate. If the unit alarms again within six minutes, it is sensing high levels of CO which can quickly become a dangerous situation.

Welcome

Note: Many times throughout this User's Guide, we will refer to Carbon Monoxide as "CO".

This Kidde carbon monoxide (CO) alarm is an important part of your family's home safety plan. This alarm has been designed and tested to detect CO buildup in a residential environment. Your alarm is for use specifically in the home. As an owner of a CO alarm, there are some basic facts you should know about for your protection.

Many people think that CO alarms operate like smoke alarms. Like smoke alarms, CO alarms monitor the air in your home and sound a loud alarm to warn you of trouble. The way you respond to a CO alarm is quite different than a smoke alarm. That's because a house fire and a CO problem are two distinctly different situations. If your smoke alarm were to alarm, you would quickly be able to judge the level of danger you were in with your senses. You can see and smell the smoke, feel the heat, see, and possibly hear the fire burning. You can also readily see if your smoke alarm is alarming in a non-emergency situation. Because your sense of sight, smell, hearing and touch give you information, you can almost instantly judge what action to take if you hear your smoke alarm.

CO is an invisible, odourless, tasteless and non-irritating gas – completely undetectable to your senses. That's why it is important to your safety that you have a CO alarm.

Important Warning Statements

IMPORTANT: This carbon monoxide alarm is designed to detect carbon monoxide from ANY source of combustion. It is NOT designed to detect smoke, fire, or any other gas.

WARNING: Carbon monoxide alarms are not smoke alarms. This carbon monoxide alarm is not a substitute for installing and maintaining an appropriate number of smoke alarms in your home.

This carbon monoxide alarm will not sense smoke, fire, or any

poisonous gas other than carbon monoxide even though carbon monoxide can be generated by fire. For this reason you must install smoke alarms to provide early warning of fire and to protect you and your family from fire and its related hazards.

CAUTION: This alarm will only indicate the presence of carbon monoxide at the sensor. Carbon monoxide may be present in other areas.

Important Warning Statements

This product is intended for use in ordinary indoor locations of family living units. It is not designed to measure compliance with Occupational Safety and the Health & Safety Executive (HSE).

The installation of this device should not be used as a substitute for proper installation, use and maintenance of fuel burning appliances, including appropriate ventilation and exhaust systems. It does not prevent CO from occurring, nor can it solve and existing CO problem.

WARNING: This device is designed to protect individuals from acute effects of carbon monoxide exposure. It may not prevent the chronic effects of carbon monoxide exposure. It may not fully safeguard individuals with specific medical conditions. If in doubt, consult a medical practitioner.

Individuals with medical problems may consider using warning devices which provide audible and visual signals for carbon monoxide concentrations under 30 PPM.

This carbon monoxide alarm requires a continuous supply of electrical power – it will not work without power.

Environmental Protection

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with Local Authority or retailer for recycling advice.

Contents of This User's Guide

1. Information About Carbon Monoxide

General Carbon Monoxide Information

Carbon monoxide is a colourless, odourless and tasteless poison gas that can be fatal when inhaled. CO inhibits the blood's capacity to carry oxygen.

Periodically review this alarm manual and discuss your CO alarm emergency procedure with all the members of your family. Never ignore a CO alarm. A true alarm is an indication of potentially dangerous levels of CO. CO alarms are designed to alert you to the presence of CO before an emergency – before most people would experience symptoms of CO poisoning, giving you time to resolve the problem calmly.

Determine if anyone in the household is experiencing symptoms of CO poisoning. Many cases of reported CO 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. Also, young children and household pets may be the first affected. You should take extra precautions to protect high-risk persons from CO exposure because they may experience ill effects from CO at levels that would not ordinarily affect a healthy adult.

Symptoms of CO Poisoning

The following common symptoms are related to CO poisoning and should be discussed with ALL members of the household.

Mild Exposure:
Slight headache, nausea, vomiting, fatigue (often described as "flu-like" symptoms).

Medium Exposure:
Severe throbbing headache, drowsiness, confusion, fast heart rate.

Extreme Exposure:
Unconsciousness, convulsions, cardio-respiratory failure, death.

If you experience even mild symptoms of CO poisoning, consult your doctor immediately!

1. Information About Carbon Monoxide

Carbon Monoxide PPM Levels (model 8LLDCO with digital display only)

Model 8LLDCO is equipped with a digital display that shows levels of CO (displayed in PPM – parts per million). Learn the difference between dangerous, high, mid and low levels.

Dangerous Levels:
When someone is experiencing symptoms of CO poisoning and CO readings are generally above 100 PPM. Anytime someone is experiencing the symptoms of CO poisoning this should be treated as an emergency. See "What to do When the Alarm Sounds" (inside front cover).

High Levels:
Generally above 100 PPM, with no one experiencing symptoms. This should be treated as an urgent situation. See "What to do When the Alarm Sounds" (inside front cover).

Mid Levels:
Generally between 50 PPM to 100 PPM. This should be cause for concern and should not be ignored or dismissed. See "What to do When the Alarm Sounds" (inside front cover).

Low Levels:
Generally below 50 PPM. Kidde recommends you take action to eliminate the source of CO. See "What to do When the Alarm Sounds" (inside front cover).

IMPORTANT: Model 8LLCO does not have a digital display and does not display carbon monoxide levels in PPM. If the alarm sounds, it should be treated as a potentially serious condition. See "What to do When the Alarm Sounds" (inside front cover).

Possible Sources of Carbon Monoxide

Inside your home, appliances used for heating and cooking are the most likely sources of CO. Vehicles running in attached garages can also produce dangerous levels of CO.

CO can be produced when burning any fossil fuel, such as gasoline, propane, natural gas, oil and wood. It can be produced by any fuel-burning appliance that is malfunctioning, improperly installed, or not ventilated correctly, such as:

- Cars, furnaces, gas ranges/stoves, gas clothes dryers, water heaters, portable fuel burning space heaters and generators, fireplaces, wood-burning stoves and certain swimming pool heaters.
- Blocked chimneys or flues, back drafts and changes in air pressure, corroded or disconnected vent pipes, loose or cracked furnace exchangers.

1. Information About Carbon Monoxide

- Vehicles and other combustion engines running in an open or closed garage, attached or near a home.
- Burning charcoal or fuel in grills and barbecues in an enclosed area.

Conditions That Can Produce Carbon Monoxide

The following conditions can result in transient CO 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.

Caravans and Boats

The following can lead to carbon monoxide being produced;

- Using LPG cooking appliances for space heating
- Leaving LPG appliances on overnight
- Barbecue's within the boat cabin or near a caravan door (e.g. under an awning)

To be safe, know the possible sources of CO 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 CO 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.

1. Information About Carbon Monoxide

Information About Carbon Monoxide Alarms – What They Can and Cannot Do:

CO alarms provide early warning of the presence of CO, usually before a healthy adult would experience symptoms. This early warning is possible, however, only if your CO 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 Kidde unit has a time-weighted alarm – the higher the level of CO present, the sooner the alarm will be triggered.

This CO alarm can only warn you of the presence of CO. It does not prevent CO from occurring, nor can it solve an existing CO problem. If your unit has alarmed and you've provided ventilation by leaving your windows and doors open, the CO buildup may have dissipated by the time help responds. Although your problem may appear to be temporarily solved, it's crucial that the source of the CO is determined and that the appropriate repairs are made.

This CO 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 CO.

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

If your CO alarm fails to test properly, or if its self-diagnostic test reveals a malfunction, immediately have the unit replaced. This alarm will not monitor CO levels while in an error condition.

CO alarms can only sense CO that reaches the unit's sensor. It's possible that CO may be present in other areas without reaching the alarm. The rate and ability that which CO reaches the alarm may be affected by:

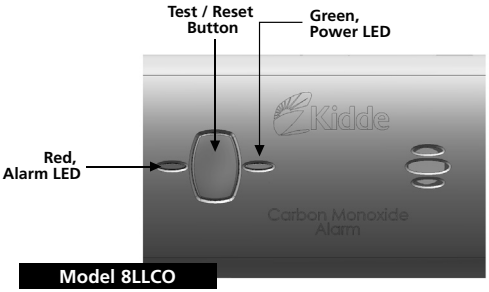
- Doors or other obstructions.
- Fresh air from a vent, an open window or other source.
- CO being present on one level of the home and not reach a CO alarm installed on a different level. (For example, CO in the basement may not reach an alarm on the second level, near the bedrooms).

For these reasons, we recommend you provide complete coverage by placing a CO alarm on every level of the home. Please carefully read all information in sections 3 and 4 on properly installing this CO alarm.

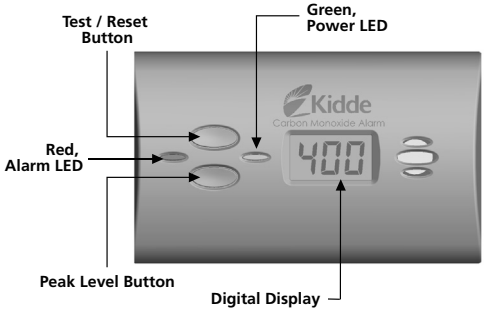
CO alarms should not be used to detect the presence of natural gas (methane), propane, butane, or other combustible fuels.

Instruct children never to touch, unplug or otherwise interfere with the alarm. Warn children of the dangers of CO poisoning.

2. Product Features and Specifications



Model 8LLCO



Model 8LLDCO
with digital display

WARNING: Ten (10) years from initial power up, this alarm will "beep" two times every 30 seconds to indicate that it is time to replace the alarm. Replace the alarm immediately! It will not detect CO in this condition.

To help identify the date to replace the alarm, a label has been affixed to the side of the alarm. Write the installation date in a permanent marker on this label.

2. Product Features and Specifications

Temperature:
Operating Range: 0° to 40°C

Humidity:
Operating range: Up to 90% (non-condensing)

Audible Alarm:
85+ dB at 1 metre @ 3.4±0.5 KHz pulsing alarm

Sensor:
Electrochemical

Power:
Sealed-in Lithium batteries

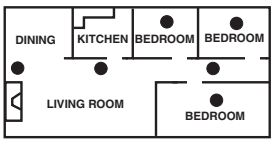
Accuracy of Digital Display: (Model 8LLDCO Only)
30-999 PPM +/-30% when measured in conditions of 80° F (+/- 10° F), atmospheric pressure +/- 10% and 40% +/- 3% relative humidity. Display readings may vary slightly depending on changes in the ambient condition (temperature, humidity) and the condition of the sensor.

Alarm Response Times:
30 PPM = no alarm in 120 minutes., 50 PPM = Must alarm in 60-90 minutes., 100 PPM = Must alarm in 10-40 minutes., 300 PPM = Must alarm within 3minutes.

3. Installation Locations

Recommended Installation Locations

CO alarms should be mounted in or near bedrooms and living areas. It is recommended that you install a Kidde CO alarm on each level of your home.



Recommended Locations

When choosing your installation locations, make sure you can hear the alarm from all sleeping areas.
If you install only one CO alarm in your home, install it near bedrooms to increase your chances of hearing the alarm as you sleep, not in the basement or furnace room.

- When wall mounting, place out of reach of children. Under no circumstances should children be allowed to handle the CO alarm.
- Placing the alarm at eye level allows for optimum monitoring of the digital display.

3. Installation Locations

Locations To Avoid

IMPORTANT: Improper location can affect the sensitive electronic components in this alarm. To avoid causing damage to the unit, to provide optimum performance, and to prevent unnecessary nuisance alarms:

- Do not install in kitchens, garages or furnace rooms that may expose the sensor to substances that could damage or contaminate it.
- Do not install in areas where the temperature is colder than 0° C or hotter than 40° C such as crawl spaces, attics, porches and garages.
- Do not install within 1.5m. of heating or cooking appliances. (Kidde recommends 3m. to prevent nuisance alarms).
- Do not install near vents, flues, chimneys or any forced/unforced air ventilation openings.
- Do not install near ceiling fans, doors, windows or areas directly exposed to the weather.
- Do not install in dead air spaces, such as peaks of vaulted ceilings or gabled roofs, where CO may not reach the sensor in time to provide early warning.
- Do not install this unit near deep-cell large batteries. Large batteries have emissions that can cause the alarm to perform at less than optimum performance.
- Do not obstruct the vents located on the alarm. Do not place the alarm where drapes, furniture or other objects block the flow of air to the vents.

4. Installation Instructions

CAUTION: THIS UNIT IS SEALED (INCLUDING THE BATTERY). THE COVER IS NOT REMOVABLE!

This alarm has lithium batteries permanently sealed inside the alarm, no battery installation or maintenance is necessary.

The alarm is shipped turned off and is activated the first time the mounting bracket is attached. To activate the alarm: for wall mounting, install the mounting bracket using the instructions below and slide the alarm until it snaps into place. Alternately for table top applications, simply slide the bracket on to the unit until snaps in place.

Note: Numerous or prolonged period of alarming is not typical and will consume the battery capacity, shortening the life of the product. Extensive cycling between high and low temperatures will significantly reduce battery life. Long term exposure to high temperatures will degrade the battery over time. Kidde recommends locating this alarm in a controlled temperature environment (20-30°C) for optimum life.

After installing your alarm, test it by using the Test/Reset button and check that the green "Power" LED blinks on.

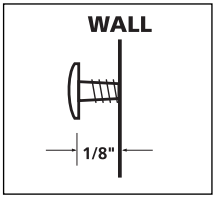
4. Installation Instructions

Mounting

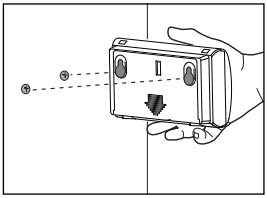
This CO alarm can be either wall mounted or placed on a tabletop.

For wall mounting, follow these steps:

1. Using the mounting bracket, place it in the desired location and mark the location of the two holes needed on the wall.
2. Insert the two screws provided until the screw heads are protruding approximately 3,2mm (1/8") from the wall. (If mounting in a plasterboard or drywall, drill a 4,8mm (3/16") hole in the wall and use the plastic anchors provided.)
3. Hook the mounting bracket over the screws and onto the keyholes in the back mounting plate of the alarm. After the mounting plate is secured to the wall, slide the alarm down over the mounting plate until it snaps into place.



Screw Head Distance from Wall



Wall Mount

The alarm is now activated!

Your CO alarm may also be placed on a tabletop. If alarm is not wall mounted, then be sure the alarm is no more than one metre from the floor to minimize the risk of causing permanent damage to the alarm in the event that it is knocked to the ground by accident.

The alarm is activated once the mounting bracket/back cover is installed!

Once activated, removing the mounting bracket/back cover will not turn it off. The unit will remain on for the next ten years.

Important Label Provided

A label has been provided that has important information on what to do in case of an alarm. Add the phone number of the emergency service provider in the space provided. Place the label near to the alarm where is can be seen in an emergency situation.

5. Model 8LLCO Operating Characteristics

Whenever the alarm is operating, the green Power LED flashes every 30 seconds to indicate the unit is monitoring for CO. If the alarm senses dangerous levels of CO, the red Alarm LED will flash and the alarm will emit an audible alarm pattern.

Operating and Alarm Characteristics

Function	LED Display	Alarm Sound	Unit Status	Recommendation
Normal Operation	Green LED flashes every 30 seconds	None	Normal DC operation (sensing no CO) and with good batteries	None
Carbon monoxide alarm	Red LED flashes with beeps.	4 quick beeps, 5 seconds silence, repeating	Alarm condition. Dangerous concentrations of CO detected	Refer to "What to do When the Alarm Sounds" (inside front cover)
Low battery	Red LED flashes every 60 seconds	One quick beep every 60 seconds	Unit batteries are not capable of powering the unit either because of age, storage or the voltage of the battery.	If unit is cold, allow to warm up above 20°C. If the unit is at room temperature and is beeping/ flashing every 60 seconds the unit needs to be replaced.
Error / service alarm	Red LED flashes every 30 seconds	One quick beep every 30 seconds	Unit is in error condition	Press and hold the test button for 5 seconds to perform a reset. If unit continues to beep or alarm, using a screwdriver slide the switch on the back of the unit up to the shut down position. Unit will not respond to CO.
Error	Red LED constantly on	Constant alarm	Very low battery or unit malfunction	
Normal Test/Reset function	Red LED flashes with beeps.	4 quick beeps, 5 seconds silence, repeated once	Normal operation when Test/Reset button is pressed	CO not detected. Alarm for test purposes only
End of unit life indicator	Red LED flashes two times every 30 seconds	Two quick beeps every 30 seconds	End of unit life	Replace unit immediately. Using a screwdriver slide the switch on the back of the unit up to the shut down position. Unit will not respond to CO.

6. Model 8LLDCO (with digital display) Operating Characteristics

When the unit is first powered up, the green Operate LED flashes once every 30 seconds and the digital display will show three "eights" – indicating the alarm is in the start-up mode. The three "eights" will remain for approximately 30 seconds. Then, the alarm will display "0" and begin monitoring the air for CO and will continue to do so as long as it receives power.

This alarm will display a "0" if CO concentrations between 0 and 30 PPM have been detected within the last 15 seconds.

6. Model 8LLDCO (with digital display) Operating Characteristics

The following table illustrates the possible digital displays, describes the audible alarm patterns, and the recommended actions to take.

Operating and Alarm Characteristics

LCD Display Shows	Alarm Sound	Unit Status	Recommendation
 A steady display of CO concentration from 30-999. Red LED flashes with beep	4 quick beeps, 5 secs. silence, repeating	Alarm condition. Dangerous concentrations of CO detected	Refer to "What to do When the Alarm Sounds" (inside front cover)
 Brief "888" for approximately 30 seconds	None	Self test when first powered up and during Test/Reset.	None – CO has not been detected. Numbers shown for test purpose only
 Test sequence indication.	4 quick beeps, 5 seconds silence, repeated once	Test/Reset button is pressed	None – CO has not been detected, for test purpose only
 Steady "0" displayed, dot flashing every 5 seconds, Green LED flashes every 30 secs.	None	Normal DC operation with good batteries (sensing no CO)	None
 "Lb" flashes alternately with any number, Red LED flashes every 60 seconds.	One quick beep every 60 seconds	Batteries need to be replaced	If unit is cold, allow to warm up above 20°C. If the unit is at room temperature and is beeping/flashing every 60 seconds the unit needs to be replaced.
 "Err" displayed	One quick beep every 30 seconds	Unit is Error condition	Press and hold the test button for 5 seconds to perform a reset. If unit continues to beep or alarm, using a screwdriver slide the switch on the back of the unit up to the shut down position. Unit will not respond to CO.
 Display is blank	Constant alarm	Unit malfunction	
 Number from 11-999 displayed.	None	Peak Level Memory activated. Highest concentration of CO detected is displayed	Refer to following section for information regarding Peak Level Memory
 "End" displayed. Red LED flashes two times every 30 seconds	Two quick beeps every 30 seconds	End of unit life	Replace unit immediately. Unit will not respond to CO.

The problems listed above are under normal operating conditions. Other "Err" conditions could exist. If you should have any questions regarding display conditions, call our Consumer Hotline.

6. Model 8LLDCO (with digital display) Operating Characteristics

Peak Level Memory (model 8LLDCO only)

When the Peak Level button is pressed and held, the display shows the highest CO reading taken by the CO alarm since its last reset or power up. In this example 120 PPM was the maximum amount of CO recorded since the unit was last reset.

The Peak Level display feature will display levels between 11-999 PPM. Although the Peak Level feature will display levels below 30 PPM, these levels will not result in an alarm no matter how long the device is exposed to these levels. The Peak Level feature is helpful in identifying if you have had a CO reading since resetting the alarm.

Concentrations of CO between 1 and 30 PPM can often occur in normal, everyday conditions. Concentrations of CO below 30 PPM may be an indication of a transient condition that may appear today and never reappear. Some CO conditions may start out as low level leaks but could develop into CO concentrations that may become harmful.

If this happens, the CO alarm will detect the dangerous level and alarm, notifying you and others of the conditions. ***DO NOT ignore high concentration readings above 30 PPM or a CO alarming device that is in alarm.***

Peak Level Memory Reset

Press the Peak Level button; with the button still pressed, press the Test/Reset button for two seconds and release. The number on the display will turn to "0", the memory will be cleared and the alarm will begin monitoring for CO.

7. Alarm Characteristics

Carbon Monoxide Alarm Indicator

When the alarm senses a dangerous level of CO, the unit will emit a loud alarm pattern. The alarm pattern is 4 quick beeps followed by 5 seconds of silence which repeats for the first 4 to 5 minutes, after which it will produce a single 4 beep pattern once a minute for as long as dangerous conditions exist. The red Alarm LED will flash the same pattern and the digital display (where equipped) will indicate CO concentrations in parts per million (PPM).

8. Maintenance

NOTE: This unit is sealed. The cover is not removable.

Due to the loudness of the alarm, we suggest that you place your fingers over the sounder opening while testing your alarm.

Caution: Continuous exposure to the high sound level of this alarm over an extended period of time may cause hearing loss.

Testing

To test the alarm, press the Test/Reset button. If the unit is operating properly, you will hear 4 quick beeps – followed by 5 seconds of silence – followed by 4 quick beeps. **For model 8LLDCO with digital display:** The display will show three dash marks "- - -"and then three "eights". The red LED will flash along with the beeps. Within several seconds the unit will return to monitor for CO.

Note: You do not need to press the Test button to take a CO reading.

Maintenance Tips

To keep your alarm in good working order, you must follow these steps:

- Test the alarm once a week by pressing the Test/Reset button.
- Vacuum the alarm cover once a month to remove accumulated dust.
- Never use detergents or solvents to clean the alarm. Chemicals can permanently damage or temporarily contaminate the sensor.
- Avoid spraying air fresheners, hair spray, paint or other aerosols near the alarm.
- Do not paint the unit. Paint will seal the vents and interfere with proper sensor operation.

Move the CO Alarm to a remote location, to prevent possible damage or contamination of the sensor, prior to performing any of the following:

- Staining or stripping floors or furniture, painting or wall-papering,
- Using aerosols or adhesives
- If your CO alarm is installed in a boat or caravan you should remove it when the boat or caravan is not in use for winter periods, as extreme cold can affect the alarms sensor.

8. Maintenance

WARNING: Reinstall the CO Alarm as soon as possible to assure continuous protection.

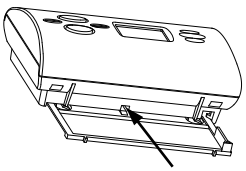
The following is a list of substances that at high levels can damage the sensor or cause temporary readings that are not CO readings:

- Ethylene, ethanol, alcohol, iso-propanol, benzene, toluene, ethyl acetate, hydrogen, hydrogen sulfide and sulfur dioxide.
- If using this alarm in a boat please note that lead acid batteries that may be present can generate hydrogen
- Also most aerosol sprays, alcohol based products, paint, thinner, solvent, adhesive, hair spray, after shave, perfume, auto exhaust (cold start) and some cleaning agents.

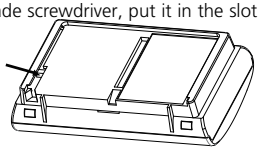
Placing unit into shut down mode at end of its useful life.

Once the unit has entered end of life or error mode it is necessary to turn the unit off. This stops it from making a sound and also discharges the remaining capacity of the battery to render it safe.

1. Remove the bracket/back cover from the unit by sliding a screwdriver between the unit and the cover at the recess in the center of the unit. This allows access to the back of the unit.



2. Once the back of the unit is visible, locate the expanded slot on the lower left hand side.
3. Using a flat blade screwdriver, put it in the slot and slide it toward



the top. You should feel the switch inside the unit slide up and stop.

Be sure to insert the screwdriver straight in and not at an angle where the switch might be missed.

The unit may make some brief noises but should be silent and not continue to beep after one (1) minute.

TEN YEAR LIMITED WARRANTY

WARRANTY COVERAGE: THE MANUFACTURER WARRANTS TO THE ORIGINAL CONSUMER PURCHASER, THAT THIS PRODUCT WILL BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF TEN (10) YEARS FROM DATE OF PURCHASE. THE MANUFACTURER'S LIABILITY HEREUNDER IS LIMITED TO REPLACEMENT OF THE PRODUCT. REPAIR OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT WITH REPAIRED PRODUCT AT THE DISCRETION OF THE MANUFACTURER. THIS WARRANTY IS VOID IF THE PRODUCT HAS BEEN DAMAGED BY ACCIDENT, UNREASONABLE USE, NEGLECT, TAMPERING OR OTHER CAUSES NOT ARISING FROM DEFECTS IN MATERIAL OR WORKMANSHIP. THIS WARRANTY EXTENDS TO THE ORIGINAL CONSUMER PURCHASER OF THE PRODUCT ONLY.

Warranty Disclaimers: Any implied warranties arising out of this sale, including but not limited to the implied warranties of description, merchantability and fitness for a particular purpose, are limited in duration to the above warranty period. In no event shall the Manufacturer be liable for 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. The Manufacturer shall have no liability for any personal injury, property damage or any special, incidental, contingent or consequential damage of any kind resulting from gas leakage, fire or explosion. This warranty does not affect your statutory rights.

Warranty Performance: During the above warranty period, your product will be replaced with a comparable product if the defective product is returned, postage prepaid, to KIDDE Safety Europe Ltd, Mathisen Way, Colnbrook, Slough SL3 0HB. Telephone 01753 685148, together with proof of purchase date. Please include a note describing the problem when you return the unit. The replacement product will be in warranty for the remainder of the original warranty period or for six months, whichever is longer. Other than the cost of postage, no charge will be made for replacement of the defective product.

Important: Do not open unit. Opening unit will void warranty.

Your *Carbon Monoxide Alarm* is not a substitute for property, disability, life or other insurance of any kind. Appropriate insurance coverage is your responsibility. Consult your insurance agent. Kidde makes no warranty, express or implied, written or oral, including that of merchantability or fitness for any particular purpose, with respect of the batteries.

For Warranty Service: In many cases the quickest way to exchange your CO alarm is to return it to the original place of purchase. If you have questions, call the KIDDE customer service department on 01753 685148

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QUESTIONS OR FOR MORE INFORMATION
Call our Customer Service Department At (0) 1753 685148 or contact us at our website at **www.kiddesafetyeurope.co.uk**