

BATTERY POWERED CARBON MONOXIDE ALARM

USER MANUAL

ref 34147



EN 50291-1 : 2010 + A1 : 2012

MAIN FEATURES:

- Long life Electro-Chemical Sensor Self Test • Easy Installation • Test / Reset Button
- Low Battery Warning • Supplied With Wall Plugs & Screws • Cannot Be fitted Without Battery

This instruction leaflet contains important information on the correct installation and operation of your CO-detector. Read this leaflet fully before attempting installation and retain for future reference.

SPECIFICATION

- Power Source: DC 4.5V - 3x 1.5VDC, LR6, Alkaline
- Sensor Type: Electrochemical
- Type of Gas sensed: carbon Monoxide
- Sensor lifetime: 7 Year
- Alarm activation: 50 ppm (Between 60-90 min) / 100 ppm (Between 10-40 min) / 300 ppm (Within 3 minutes)
- Operation Temperature: 0°C - 45°C (storage: -20° - 50°C ± 2°C)
- Ambient Humidity: 0% - 90% RH (storage: 0% - 70% RH)
- Horn Level: >85 Decibels at 1 meters
- Battery life: 1 year minimum

WHAT IS CARBON MONOXIDE

Carbon Monoxide (CO) is an insidious poison that is released when fuels are burnt. It is a colorless, odorless, tasteless gas and therefore very difficult to detect with the human senses. CO kills hundreds of people each year and injures many more. It binds to the hemoglobin in the blood and reduces the amount of oxygen being circulated in the body. In high concentrations, CO can kill in minutes. CO is produced by the incomplete combustion of fuels such as wood, charcoal, coal, heating oil, paraffin, petrol, natural gas, propane, butane etc.

Examples of CO sources:

- Running engine in garage • Oil and Gas fumes • Wood stoves • Barbecues • Wood and gas fireplaces • Gas appliances • Portable generators • Gas or kerosene heaters • Clogged chimneys • Heating boiler

SYMPTOMS OF CO POISONING

- The following symptoms may be related to CO poisoning:
- 35 ppm:** The maximum allowable concentration for continuous exposure for healthy adults in any 8 hour period.
- 200 ppm:** Slight headaches, fatigue, dizziness, and nausea after 2-3 hours
- 400 ppm:** Frontal headaches within 1-2 hours, life threatening after 3 hours

Note: Pressing the test button too soon (i.e. when the green LED is still flashing quickly) can lead to a false alarm. In this case, remove the battery again, wait approx. 5 minutes and repeat the procedure.

WHAT TO DO IN THE EVENT OF AN ALARM

- In the event the CO alarm raises an alarm:
- Immediately move to fresh air outdoor or open all doors/windows to ventilate the area and allow the carbon monoxide to disperse.
- Where possible turn off fuel burning appliance.
- Evacuate the building.
- Do not re-enter the premises or move away from the open door/window until emergency services responders have arrived, the premises have been aired out, and your alarm remains in its normal condition.
- Seek medical help immediately for anyone suffering from the symptoms of headache, drowsiness, nausea, etc.
- Do not use the appliances again until they have been checked by a qualified technician and the fault located and cleared.

IMPORTANT SAFETY REQUIREMENTS

- Installing a CO-detector is only the first step towards safer living conditions. Make sure that you and other members of your household are familiar with the cause and effect of carbon monoxide poisoning and how to operate a CO-detector.
- Test your CO-detector once per month.
- Immediately replace low batteries.
- Only purchase approved combustion devices.
- Install combustion devices in the correct way and strictly follow the instructions of the manufacturer.
- Have your installation performed by a professional.
- Have your installation checked by a qualified installer on a regular basis.
- Clean your chimney and drainage once every year.
- Regularly check all combustion devices.
- Verify if your equipment is free of corrosion and peelings.
- Never use your barbecue indoors or in garages.
- Ensure sufficient ventilation when using a fireplace or multi-burner.
- Always pay attention to symptoms of carbon monoxide poisoning.

NEVER:

- Never burn charcoal indoors or in a caravan, camper, tent or cabin.
- Never repair, check or install combustion devices yourself without having the proper

- 800 ppm:** Dizziness, nausea and convulsions within 45 minutes. Unconsciousness within 2 hours. Death within 3 hours.
- 1600 ppm:** Headache, dizziness and nausea within 20 minutes. Death within 1 hour
- 6400 ppm:** Headache, dizziness and nausea within 1-2 minutes

LOCATING THE CO ALARM

Carbon Monoxide alarm is designed to detect the toxic CO fumes that result from incomplete combustion, such as those emitted from appliances, furnaces, fireplace and auto exhaust. If your dwelling is on a single story, for minimum protection you should fit an alarm in the bedrooms or in the hallway of sleeping areas. Place it as near to the sleeping areas as possible and ensure the alarm is audible when the bedrooms are occupied. If your dwelling is multi-story, for minimum protection at least one alarm on each floor. NOTE: For maximum protection an alarm should be fitted in or near every room that contains a fuel-burning appliance such as any gas fires, central heating boilers, room heaters, water heaters, cookers, grills, etc. CAUTION: This alarm will only indicate the presence of carbon monoxide gas at the sensor. Carbon monoxide gas may be present in other areas.

A CARBON MONOXIDE ALARM DOES NOT FUNCTION AS A REPLACEMENT FOR A SMOKE OR GAS DETECTOR

POSITIONING THE CO ALARM

- Carbon Monoxide has a similar density to warm air and, to ensure that the most effective use is made of the detector, it should be fitted at least 1.5 meters (5 feet) above the floor level and at least 1.85 meters (6 feet) from the appliance (1).
- Areas to be avoided include the following:
 - Situations where the temperature may fall below -10°C or rise above 40°C
 - In a damp or humid area
 - Any area where high levels of dusty, dirty or greasy emissions could contaminate or clog the sensor.
 - Behind drapes or furniture.
 - In the path of air discharged from a furnace, air conditioning vent or ceiling fan.
 - Outside the building
 - Directly above a sink or cooker

CAUTION: This carbon monoxide alarm is designed for indoor use only. Do not expose to rain or moisture. It will not protect against the risk of carbon monoxide poisoning when the battery has drained. Do not open or tamper with the alarm as this could cause malfunction.

- knowledge and required skills to do so.
 - Never use a gas range, oven or hair or clothes drier as a heater.
 - Never use stoves (combustion devices) without outlet in sealed off spaces.
 - Never let diesel or petrol engines operate indoors or in sealed off spaces.
 - Never ignore a security system when it shuts down a device.
 - Never ignore a warning from your CO-detector.
- This CO alarm is designed to only sense carbon Monoxide from any source of combustion. It is NOT designed to detect smoke, fire and other gases.

THIS PRODUCT CANNOT BE REPAIRED IF THE UNIT IS TAMPERED WITH IT WILL INVALIDATE THE GUARANTEE. IF THE UNIT IS FAULTY PLEASE RETURN IT TO YOUR ORIGINAL SUPPLIER WITH YOUR PROOF OF PURCHASE.

This product is not designed for use in a recreational vehicle or mobile home. The alarm should be installed by a competent person. This apparatus is designed to protect individual from the acute effects of carbon monoxide exposure. It will not fully safeguard individuals with specific medical conditions. If in doubt consult a medical practitioner.

For indoor use only. Read the manual before use, and keep it in a safe place for future use and for product maintenance.

EN PRODUCT GUARANTEE

This product has factory warranty according to EU regulations. Guarantee lasts for the number of years shown on the packaging, starting from the date of purchase. Keep the receipt - proof of purchase is required in order to rely on guarantee. In the case of problems, please contact with the store where you purchased the product. For further product information call to our Hotline or visit our website: www.chacon.be

DISPOSAL

Correct Disposal of This Product (Waste Electrical & Electronic Equipment) (Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

INSTALLING THE CO ALARM

This CO alarm is powered by a battery and requires no additional wiring. It can either be installed on the wall using the fixings provided or on a tabletop.

Wall mount installation:

- Having established the mounting location ensure that there is no electrical wiring or pipe work in the area adjacent to the mounting surface.
- Mark the two mounting hole locations (2).
- Drill holes in the positions marked. Insert wall plugs into the drilled holes.
- Screw mounting bracket to mounting surface. DO NOT OVERTIGHTEN (3)
- Insert 3xLR6 Alkaline battery firmly into battery compartment on the rear of the detector (4).
- NOTE For the safety of the end user the CO alarm cannot be fitted without its battery. Assemble the alarm onto the mounting plate (5).
- Test whether the CO alarm is functioning properly by holding the test button on the front of the alarm for 2 sec. and then release it. The unit will sound 4 beep tones and the red LED will flash at the same time.

OPERATING YOUR CO ALARM

Normal Operation

When no carbon monoxide is present, the green light flashes every 45 sec. and is an indication that your alarm is powered and functional.

Alarm Condition

When the unit detects dangerous levels of CO, it will emit an alarm signal of 4 beeps along with flashing of Red LED. This will continue as long as there is a dangerous level of CO present. Should the CO levels return to normal, the unit will stop beeping and return to standby mode automatically. CO-LEVEL (PPM) RESPONSE TIME (MIN)

- 50 ppm: 60-90 min / 100 ppm: 10-40 min / 300 ppm: <3 min

Return to Normal Operation

When the carbon monoxide gas disperses and the unit has been reset, the alarm signal will stop. The green power lamp will continue to flash approximately twice every minute.

Low Battery Signal

When your battery needs replacing, the unit will beep and green LED indicator will flash at the same time every 45 seconds for up to 7 days. NOTE - with normal use the batteries will last for 1 year minimum. However, battery life will be reduced if either a fault occurs with the battery or the alarm remains in alarm for long periods of time.

Unit Malfunction

If the unit has detected an error, the yellow light will flash and the unit will beep twice per 10 seconds at the same time indicating that your alarm has failed.



Always throw empty batteries to recycling bin. If the battery is built-in inside the product open the product and remove the battery.

MAINTENANCE

The devices are maintenance-free, so never open them. The guarantee becomes void when you open the appliance. Only clean the outside of the devices with a soft, dry cloth or a brush. Prior to cleaning, remove the devices from all voltage sources. Do not use any carboxylic cleaning agents or petrol, alcohol or similar. These attack the surfaces of the devices. Besides, the vapors are hazardous to your health and explosive. Do not use any sharp edged tools, screwdrivers, metal brushes or similar for cleaning. Warning: Protect the battery against fire, too much heat and sunshine.

GENERAL SAFETY

Clean with a clean, dry cloth or brush, use no solvents or abrasives. Avoid dampness on all electrical components. Keep all parts out of the reach of children. Avoid a wet, very cold or warm environment; this may damage electronic circuit boards. Avoid dropping or shocks, this may damage the electronic circuits. Repairs or opening of this item may only be done by an authorized repairer. Wireless systems can be interference from cordless phones, microwave ovens and other wireless devices operating in the 2.4GHz range. Keep the system AT LEAST 3m away from the devices during installation and operation. Keep batteries out of the reach of children. Do not swallow Batteries. When a cell or battery is swallowed, call a doctor immediately.