



CARBON MONOXIDE ALARM



CARBON MONOXIDE DETECTOR USER'S MANUAL BS EN 50291-1:2018 BS EN 50291-2:2019

Please Read Carefully and Store in a Safe Place

INTRODUCTION

Carbon Monoxide is a odourless, tasteless and colourless gas that can kill. If you suspect presence of Carbon Monoxide, immediately open windows and doors and vacate the property. Contact a Registered Gas Installer or call the Gas Emergency line on 0800 111 999 (UK)

IMPORTANT: This apparatus is designed to protect individuals from the acute effects of Carbon Monoxide exposure, it will not fully safe guard individuals with specific medical conditions. If in doubt consult a medical practitioner. This product should be installed by a competent person

RECOMMENDED INSTALLATION LOCATIONS

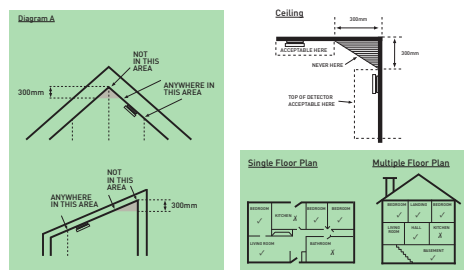
We recommend the installation of a CO Alarm in the following locations.

- For maximum protection we suggest an alarm be installed on each level of each level of a multilevel home including every bedroom, hallway, finished attics and basements.
- Put one alarm at each end of bedroom, hallway or large room if area is more than 9m long.
- If you have only one alarm, ensure it is placed in the hallway outside of the main sleeping area, or in the main bedroom.

- Verify the alarm can be heard in all sleeping areas.
- Locate an alarm in every room where someone sleeps with the door closed. The closed door may prevent the alarm from waking the sleeper.
- For ceiling mounting, locate a minimum of 300mm from any side wall (see diagram A) and at least 500mm from any light fitting.
- If installing the alarm on the wall, install at a minimum of 300mm below the ceiling (see diagram A).
- Wall mounting is preferred in ordinary residential construction.

WHERE NOT TO INSTALL

- INSTALL AT LEAST 2m AWAY FROM ANY FUEL BURNING APPLIANCE.
- Do not install within 1m of the following: Forced air ducts used for heating or cooling. Ceiling or whole house ventilating fans, or other high air flow areas. Avoid excessively dust, dirt or grease.
- Dust, grease and household chemicals can contaminate the alarm's sensor, CO must be able to reach the sensors to accurately detect these conditions.
- Do not install in peaks of vaulted ceiling, 'A' frame ceilings or gabled roofs.
- Keep out of damp and humid areas.
- Install at least 300mm away from fluorescent lights, electronic noise may cause nuisance alarms.
- Extreme temperatures will affect the sensitivity of the CO Alarm. Do not install in areas where the temperature is colder than 5°C or hotter than 100°C.
- Place away from doors and windows that open to the outside.



MOUNTING INSTRUCTIONS

- After selecting an appropriate location for your CO Alarm, drill two 5.0mm holes, 55mm apart, and insert the supplied plastic wall plugs into the holes. Insert the supplied screws into the wall plugs and screw in, leaving approximately 5mm of thread exposed.

HOW TO ACTIVATE

- **Hook the alarm onto the screws, then pull out the alarm activation tab (FIG 1). The alarm will chirp once and a green LED will flash once. This has started the activation of the alarm.**
- **Activation of the alarm takes 90 seconds. DO NOT press the TEST button during the activation 90 seconds period.**
- **After 90 seconds, check the Green LED is flashing on the front of the alarm. The LED will flash once every 48 seconds.**

FIG. 1



TESTING THE ALARM

CAUTION: Due to the loudness of the alarm, 85 decibels, always test at arm's length from the unit. It is recommended that the unit is tested weekly and the sensor annually.

- The test button is used to test the alarm electronics weekly.
- CO Test Gas is used to test the sensor annually.
- After activation, test the unit by pressing the Test button. A series of beeps will sound and the red LED will flash.
- If at any time it does not perform as described, check that the Green LED is flashing every 48 seconds.
- If the Green LED is flashing (indicating the alarm is powered on), clean the vents of the alarm with a vacuum cleaner to remove and dust / cobwebs.
- If the alarm still does not test properly contact supplier of the alarm.

SILENCE FUNCTION

The silence feature can temporarily silence and unwanted alarm for up to 2 minutes. To use the feature, press the Test / Silence button once. Should the Test / Silence be pressed during the silence mode, the alarm will reactivate and continue to alarm. The red LED will flash 3 times per second while in silence mode. The alarm will re-sound after approximately 2 minutes if there is still CO present.

If the unit will not silence or if it stays in silence mode continuously (red LED flashing 3 times per second), the alarm should be replaced immediately. If you do not know the source of the CO gas, do not assume it is a false alarm. Not responding to an alarm activation can result in illness, injury or death.

ALARM MEMORY FUNCTION

If the alarm has been activated, the unit will memorise the activation. The alarm will chirp and the red and green LED's will flash every 48 seconds. This indicates that the alarm has been activated at an earlier time.

CLEAR THE MEMORY

Press and hold the Test / Silence button. The alarm will beep and the red and green LED's will flash 7 times. Once the 7 beeps have sounded release the button. The alarm is now fully reactivated. NOTE: the alarm will still sense CO whilst the alarm is the memory function mode.

LED INDICATOR OPERATION

Green LED - Flashes once every 48 seconds, this indicated normal operation.
Red LED - Flashes in conjunction with the alarm beep. This indicated the presence of CO Gas, Open windows and doors and seek assistance from a competent professional.
Yellow LED - Fault. Replace unit immediately.

END OF LIFE OPERATIONAL LIFE

Upon reaching the end of operational life, the Yellow LED will flash three times and the alarm will beep three times in quick succession, every 60 seconds, the alarm should then be deactivated and replaced.

Low Battery Alert - When the battery is low, the unit will beep once and the Yellow LED will flash once every 60 seconds.

Fault Alert - In case of a fault, unit will beep twice and Yellow LED will flash twice.

IMPORTANT: Upon reaching the end of operational life, the unit should be replaced immediately and disposed of within local recycling regulations.

WHAT TO DO IF THE ALARM SOUNDS

- Immediately open windows and doors to ventilate the premises.
- Switch off all heating and cooking appliances.
- Call your local Gas Safe Installer or the Gas Emergency Helpline on 0800 111 999.
- 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 or move away from the open door / window until the emergency services have arrived and the premises have been ventilated, the cause of CO detected and isolated and your alarm has come to its normal operation.

Please see reverse for further instructions.

Never restart the source of a CO problem until it has been fixed. NEVER IGNORE THE ALARM.

This Carbon Monoxide Alarm is designed to detect Carbon Monoxide gas away from ANY source of combustion. It is NOT designed to detect any other gas.

GENERAL MAINTENANCE

To keep your CO Alarm in good working order, please follow these simple steps:

- Test the alarm and LED light operation by pushing the test button once a week.
- Vacuum the alarm cover and vents once a month to remove dust and cobwebs.
- Never use detergents or other solvents to clean the unit.
- Avoid spraying air fresheners, hair-spray, or other aerosols near the CO Alarm.
- Do not paint the unit. Paint will seal the vents and interfere with the sensor's ability to detect CO.
- Never attempt to disassemble the unit or clean inside. This action will void your warranty.

SAFETY INFORMATION

General CO Information - Carbon Monoxide is a colourless, tasteless poison gas that can be fatal when inhaled. CO inhibits the blood's capacity to carry oxygen.

Possible Sources - CO can be produced when burning and fossil fuel: petrol, propane, natural gas, oil, wood and coal. It can be produced by and fuel-burning appliance that is malfunctioning, improperly installed, or not ventilated correctly. Possible sources of CO include boilers, gas range/stoves, water heaters, portable fuel burning space heaters, open fires, wood-burning stoves, blocked chimneys / flues and cigarette smoke. Vehicles and other combustion engines running in an attached garage or using a barbecue in an enclosed area are all possible sources of CO.

CO Safety Tips - Every year have your heating system, vents, chimney and flue inspected and cleaned by a qualified technician. Always install appliances according to manufacturer's instructions and adhere to local building regulations. Most appliances should be installed by professionals and inspected after installation. Regularly examine vents and chimneys or improper connections, visible rust or stains, and check for cracks in furnace heat exchangers. Verify the colour of the flame on the pilot lights and that the burner is blue. A yellow or orange flame is a sign that the fuel is not burning completely. Teach all household members what the alarm sounds like and how to respond.

Symptoms of CO Poisoning - Initial Carbon Monoxide poisoning symptoms are similar to the flu with no fever and can include dizziness, severe headaches, nausea, vomiting and disorientation. Everyone is susceptible, but experts agree that unborn babies,

pregnant women, senior citizens and people with heart or respiratory problems are especially vulnerable. If symptoms of Carbon Monoxide poisoning are experienced seek medical attention immediately. CO poisoning can be determined by a carboxyhaemoglobin test.

The following symptoms are related to Carbon Monoxide 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.

The above levels of exposure relate to healthy adult. Levels differ for those at high risk. Exposure to high levels of Carbon monoxide can be fatal or cause permanent damage and disabilities. 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. Also, young children and household pets may be the first affected. Familiarisation with the effects of each level is important.

SPECIFICATION

Power Supply:	SEALED ER14505 3.6v battery
Standby Current:	<2.µA
Alarm Current:	<30mA
Ambient Operating Conditions:	5 - 40°C, 20 - 90% R.H.
Alarm:	Loud 85 decibel audible alarm and flashing Red LED indicator
Sensor Type:	Electrochemical
Normal	
Sensor Life:	10 Years from initial activation
Certification:	BS EN 50291-1:2018 BS EN 50291-2:2019

CO Concentration	Without alarm before	With alarm before
30ppm	120min	-
50ppm	60min	90min
100ppm	10min	40min
300ppm	-	3min

DISPOSAL

Waste electrical products should not be disposed of with regular household waste. Please recycle where facilities exist. Check local requirements for disposal of lithium battery electronic devices.

The alarm should be deactivated before disposal. To deactivate, insert the pins of the disabling / activation tab back into the socket on the top of the alarm. If the original tab has been misplaced, you can create the same effect by using a thin paperclip or piece of wire.

You can also return your alarm to use for disposal. Please contact us before returning the unit to us.

DISCLAIMER

This alarm is designed to detect and alert the user to the presence of Carbon Monoxide from ANY source of combustion. It is NOT designed to detect any other gas.

The alarm may not protect people who are especially vulnerable to Carbon Monoxide poisoning; pregnant women, unborn babies, senior citizens and people with heart or respiratory problems. Please seek medical advice if in doubt.

The alarm is not a substitute for heat alarms, and is not a substitute for regularly servicing fuel burning appliances, chimneys and flues.

WARNING:

WHEN HOUSEHOLD CLEANING SUPPLIES OR SIMILAR CONTAMINATES ARE USED, THE AREA MUST BE WELL VENTILATED.

THE FOLLOWING SUBSTANCES CAN AFFECT THE CO SENSOR AND MAY CAUSE FALSE ALARMS AND DAMAGE TO THE SENSOR:

METHANE, PROPANE, ISO-BUTANE, ISO-PROPANOL, ETHYL ACETATE, HYDROGEN SULFIDE DIOXIDES, AND ALCOHOL BASED PRODUCTS, PAINTS, THINNERS, SOLVENTS, ADHESIVES, HAIR SPRAY, AFTER SHAVE, PERFUME, AND SOME OTHER CLEANING AGENTS.



10 YEAR LIMITED WARRANTY

Arctic Hayes Ltd warrants that for a period of ten years from the date of purchase, this product will be free from defects in material and workmanship.

Arctic Hayes Ltd, as its sole discretion, 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, provided it is returned with postage pre-paid and proof of purchase. If the product is no longer available, replacement may be made with similar product of equal or greater value.

This is your exclusive warranty. This warranty is valid for the original retail purchaser from the date of initial retail purchase and is not transferable.

We may be able to resolve any issues quickly over the phone and avoid lengthy return times.

Arctic Hayes Ltd will be under no obligation to repair or replace units found to be defective due to damage, misuse, neglect, unreasonable use or found to have been dismantled or tampered with.

Should a problem arise with the alarm, please contact the Arctic Hayes helpline on +44(0) 113 271 5245 or sales@arctic-hayes.com

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