



CARBON MONOXIDE & SMOKE ALARM



CARBON MONOXIDE & SMOKE ALARM USER'S MANUAL BS EN 14604 :2005 BS EN 50291-1:2018 BS EN 50291-2:2019

Please Read Carefully and Store in a Safe Place

INTRODUCTION

Thank you for purchasing this alarm, designed to detect and alert the user to the presence of Carbon Monoxide (CO) or Smoke from ANY source of combustion. It is NOT designed to detect any other gases. This user's manual contains information on the operation and installation of the alarm. Please take a few moments to read the manual carefully and store in a safe place for future reference.

RECOMMENDED INSTALLATION LOCATIONS

IMPORTANT: THIS ALARM MUST BE MOUNTED ON A CEILING OR WALL. IT WAS NOT DESIGNED FOR USE AS A TABLETOP DEVICE! INSTALL ONLY AS DETAILED!

For maximum protection it is suggested that an alarm is installed in all rooms containing a fuel burning appliance and on each level of a multilevel property, including finished attics and basements.

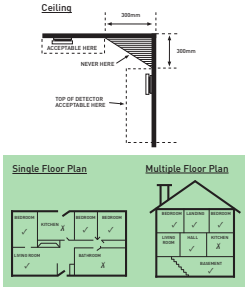
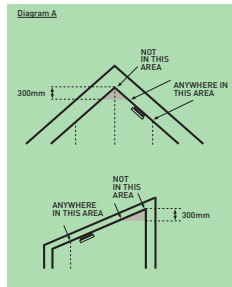
When mounting an alarm on the ceiling, locate it at a minimum of 300mm from the side wall.

When mounting an alarm on the wall, locate it at a minimum of 300mm below the ceiling.

If there is only one alarm available for domestic use, ensure it is placed in the hallway outside of the main sleeping area(s). Verify that the alarm can be heard in all sleeping areas.

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 dusty, dirty or greasy areas.
- 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

1. Remove the mounting bracket from the back of the alarm by twisting the unit.
2. After selecting a suitable location for the alarm, drill two 5mm holes in the ceiling or wall with a distance between 50mm and 65mm, using the mounting bracket as a guide and insert the plastic plugs (provided).
3. Attach the mounting bracket to the ceiling or wall using the screws provided.
4. Align the activated alarm to the mounting bracket and twist to activate.

HOW TO ACTIVATE

Connect the 9V battery, the unit will sound "Beep" and the Green LED will flash once to indicate it is activated. The test function will not operate during the 90 second activation period.

Normal Conditions:

If there is no CO present, the green LED will flash once every 30 seconds.

If there is no smoke present, the red LED will flash once every 30 seconds.

ALARM MEMORY FUNCTION (CO ONLY)

If the CO part of the alarm has been activated the unit will memorise the activation. The alarm will chirp approximately every 50 seconds. This indicates that the alarm has been activated at an earlier time. To clear the memory press and hold the CO button the alarm will sounded 7 times with a final longer beep at the end. Release the button and the memory is re-set. The alarm will still sense CO while the alarm is in memory function mode

Alarm Conditions:

If the unit detects CO the alarm pattern will sound CO Alarm is continuous beep and LED will flash.

This cycle will repeat for as long the CO remains at a dangerous level. If the unit detects Smoke Alarm will beep 3 times every second and LED flash.

End of Battery Life:

When the battery has run down the unit will "Beep" once every 30 seconds. The green LED will continue to flash every 30 seconds.

End of Sensor Life:

When the sensor comes to the end of its life or there is a fault with the alarm, the alarm will "Beep" once every 30 seconds.

WHAT TO DO IF THE ALARM SOUNDS

If the carbon monoxide alarm sounds:

- immediately open windows and doors to ventilate the property.
- call the National Gas Emergency Service on 0800 111 999.
- if possible, turn off and stop using any fuelled appliances.
- evacuate the property.
- do not re-enter the property until the cause of CO has been detected and isolated, and the alarm has returned to normal operation.
- seek medical assistance for anyone suffering from, or suspected to be suffering from the effects of Carbon Monoxide poisoning.
- do not use fuelled appliances until they have been assessed and cleared by a competent professional.

If the smoke alarm sounds:

- Don't panic, stay calm. Your safe escape may depend on thinking clearly.
- Notify everybody in the residence of the fire.
- Get out of the house as quickly as possible. Follow a planned escape route. Do not stop to get dressed or collect any belongings.
- Feel the doors to see if they are hot. If they are hot, do not open them – use an alternative escape route.
- Stay close to the floor. Smoke and hot gas rises.
- Cover your nose and mouth with a cloth (wet if possible). Take short, shallow breaths.
- Keep doors and windows closed. Open them only to use them as a means of escape.
- Meet at a planned location after leaving the house. Carry out a headcount of all residents.
- Call the Emergency Services/Fire Service as soon as possible from outside your house. If possible use a neighbour's phone or public phone rather than a mobile phone (your location can be traced from the number if the line is lost).
- Give your name and the address.
- Never go back inside the building until a member of the fire service has told you it is safe to do so.

TESTING YOUR CO ALARM

CAUTION:

Due to the loudness (85 decibels) of the alarm, always stand an arm's length away from the unit when testing.

After installation, the unit's electronics can be tested. To test the CO alarm, press and hold the CO button, the alarm will beep 3 times and the LED will flash red 3 times. This sequence will then repeat once more.

To test the smoke alarm, press and hold the smoke button for 3 seconds. During this time the alarm will beep 3 times and LEDs will flash.

It is recommended that the unit is tested weekly. If at any time it does not perform as described, Check that the battery is fitted properly and does not need replacing. If it still does not operate correctly, contact the supplier of the alarm.

GENERAL MAINTENANCE OF ALARM

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

- verify the unit's alarm and LED light operation by pushing the test button once a week.

Please see reverse for further instructions.

- remove dust and dirt from the alarm cover once a month using a dry cloth.
- never use detergents or other solvents to clean the unit.

- avoid spraying air fresheners, hair spray or other aerosols near the 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 and clean inside. This action will void your warranty.

END OF SENSOR LIFE

Under normal operating conditions, this unit will operate for up to 10 years. The unit must be replaced if there is a fault with the sensor or when the sensor 'end of life' warning is given (the alarm will 'Beep' every 30 seconds).

BATTERY REPLACEMENT

Your alarm is sealed and the cover is designed not to be removed. To replace the battery, remove the alarm from the mounting bracket, and replace with a good quality 9V alkaline battery.

Once the battery has been replaced, reinstall and test the alarm. The alarm will beep once and the green LED will flash to indicate that the alarm is operational.

GENERAL CO INFORMATION

Carbon Monoxide (CO) is a colourless, odourless and tasteless gas, which inhibits the blood's capacity to carry oxygen and can be fatal when inhaled. CO is released by burning fuels: gas, oil, wood, charcoal, coke, coal and petrol. Dangers arise when fuel-burning appliances are malfunctioning, improperly installed, or not ventilated correctly. Possible sources of CO include:

- gas range/stoves.
- water heaters.
- portable fuel burning heaters.
- fireplaces.
- wood-burning stoves.
- blocked chimneys or flues.
- vehicles and other combustion engines running in an attached garage could also be a source of CO.

The following conditions can result in transient CO situations:

- excessive spillage or reverse venting of fuel-burning appliances caused by wind direction and/or velocity.
- extended operation of un-vented fuel-burning

- devices (range, oven, fire-place, etc).
- car idling in an open or closed attached garage, or near a property.

CO SAFETY TIPS

Have any heating systems, vents, chimneys and flues inspected annually by a competent professional.

Always install appliances according to the manufacturer's instructions and adhere to local building regulations.

Most appliances should be installed by a professional and inspected after installation. Regularly examine vents, chimneys and flues for improper connections, rust/stains and cracks. Verify the colour of the flame on pilot lights and burners is blue. A yellow or orange flame is a sign that the fuel is not burning completely.

Teach everyone what the alarm alerts are and how to respond to them.

SYMPTOMS OF CO POISONING

Initial carbon monoxide poisoning symptoms are similar to the flu with no fever; these 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/organisation:

1. Mild Exposure: Slight headache, nausea, vomiting, fatigue (often described as 'Flu-like' symptoms).
2. Medium Exposure: Severe throbbing headache, drowsiness, confusion, fast heart rate.
3. Extreme Exposure: Unconsciousness, convulsions, cardio respiratory failure, death.

The above levels of exposure relate to healthy adults. Levels can 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 whilst 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. Young children and household pets may be the first affected. Familiarisation with the effects of each level is important.

SPECIFICATION

Power Supply: 9V Alkaline battery
Sensitivity Levels: 50ppm between 60 and 90 mins
100ppm between 10 and 40 mins
300ppm within 3 mins
Standby Current: <15uA
Alarm Current: <30mA
Ambient Operating Conditions: 5 - 40°C, 20 - 90% R.H.
CO Sensor: Electrochemical
CO Alarm: Loud 85 decibel audible alarm and flashing Red LED indicator
CO Sensor Life: 10 Years
Smoke Sensor: Optical / Photoelectric
Smoke Alarm: Loud 85 decibel audible alarm and two flashing red LED indicators

Smoke Sensor Life: 10 Years
Overall Product Life: 10 Years

DISPOSAL

Please ensure the unit is disposed of in accordance with local regulations, once it has come to the end of its life.

DISCLAIMER

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

The alarm requires power from a 9v battery to operate, and will only indicate the presence of Carbon Monoxide and Smoke at the sensor. Carbon Monoxide or Smoke may be present at other areas.

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.



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

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.

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