Instruction Manual SF450EN Honeywell



Carbon Monoxide Alarm User Manual 2109M5500 8 EN50291:2001

INTRODUCTION

Test

Thank you for purchasing this alarm which is designed to detect the presence of Carbon Monoxide. This manual contains information on the installation and operation of the Carbon Monoxide alarm.

The green power light flashes at approximately 1 minute intervals to indicate that the unit is operating correctly. The red alarm light will flash continuously and

the buzzer will sound if Carbon Monoxide is present.

The unit is suitable for use in areas where cooking and heating appliances burn fuels such as wood, charcoal, coal, coke, oil, petrol, gas, etc.

WHAT IS CARBON MONOXIDE

Carbon Monoxide (CO) is a highly poisonous gas which is released when fuels are burnt. It is invisible, has no smell and is therefore very difficult to detect with the human senses. The first warning symptoms that CO is present in the air are usually headaches and nausea. Under normal operating conditions, in a room where fuel-burning appliances are well maintained and correctly ventilated, the amount of Carbon Monoxide released into the room by the appliances is not dangerous. A dangerous quantity of Carbon Monoxide can occur if one or more of the following conditions exists

- 1. An appliance is faulty or is badly maintained.
- 2. A flue is partially or totally blocked.
- 3. A room is not adequately ventilated.

CAREFULLY READ AND UNDERSTAND THE CONTENTS OF THIS INSTRUCTION MANUAL BEFORE USING THE ALARM. RETAIN THE MANUAL IN A SAFE PLACE FOR FUTURE REFERENCE. PAY PARTICULAR ATTENTION TO THE SAFETY WARNINGS, PASS THE MANUAL ONTO ANY SUBSEQUENT USERS OF THE ALARM.

WARNING

THIS CARBON MONOXIDE ALARM MAY NOT PROTECT PEOPLE WHO ARE AT SPECIAL RISK FROM CARBON MONOXIDE EXPOSURE BY REASON OF AGE, PREGNANCY OR MEDICAL CONDITION, IF IN DOUBT, CONSULT YOUR MEDICAL PRACTITIONER.

This Carbon Monoxide Alarm is NOT:

- A substitute for either a smoke alarm or a combustible aas detector.
- To be seen as a substitute for the proper servicing of fuel-burning appliances or the sweeping of chimneys
- To be used on an intermittent basis, or as a portable detector for the spillage of combustion products from fuel-burning appliances or chimneys.

CAUTION

This Carbon Monoxide alarm is designed for indoor use only. Do not expose to rain or moisture. Do not knock or drop the unit. Do not open or tamper with the unit as this could cause malfunction.

The alarm will not protect against the risk of Carbon Monoxide poisoning when the battery has drained.

IMPORTANT

- Carbon Monoxide is produced by the incomplete combustion of fuels such as wood, charcoal, coal, heating oil, paraffin, petrol, natural gas, propane, butane etc.
- Ideally, it is recommended that a Carbon Monoxide alarm should be installed in or near to every room that has a fuel burning appliance such as any gas fires, central heating boiler, room heaters, water heaters, cookers, grills, etc.
- This alarm should only be installed by a competent person.
- Ensure that the audible alarm can be heard by all those who are intended to hear it.
- This product should not be used if any fault signals are given.
- Seek medical help if it is suspected that a member of the household is suffering from Carbon Monoxide poisoning.
- If further details are required which do not appear in this manual, contact Honeywell Analytics.

This pack contains: One unit

One fixing kit One instruction manual

EFFECTS OF CARBON MONOXIDE POISONING

Carbon Monoxide binds to the haemoglobin in the blood and reduces the amount of oxvgen being circulated in the body.

- 200ppm Slight headaches, tiredness, dizziness, nausea after 2-3 hours.
- 400ppm Frontal headache within 1-2 hours, life threatening after 3 hours.
- maa008 Dizziness, nausea and convulsions within 45 minutes. Unconsciousness with 2 hours. Death within 2-3 houre
- Headache, dizziness and nausea within 20 minutes. 1600ppm Death within 1 hour
- 6400ppm Headache, dizziness and nausea within 1-2 minutes. Death within 10-15 minutes.

POSITIONING THE ALARM

- 1. Units located in the same room as a fuel-burning appliance
- If the unit is located on the wall it should be located at a height greater than the height of any door or window but at least 150mm from the ceiling. If the unit is mounted on the ceiling it should be at least 300mm from any wall.
- The unit should be at a distance of between 1m and 3m from the potential source.
- · If there is a partition in a room, the unit should be located on the same side of the partition as the potential source.
- In rooms with sloped ceilings, the unit should be located at the high side of the room.
- 2. Units located in sleeping rooms and in rooms remote from a fuel burning appliance
- Units should be located relatively close to the breathing area of the occupants.

WHERE NOT TO PUT THE ALARM

Do not place the unit in the following areas:

- Outside the building.
- In or below a cupboard.
- In a damp or humid area.
- Directly above a sink or cooker.
- · Next to a door or window or anywhere that would be affected draughts, eg, extractor fan or air vent.
- · Where the air flow to the unit would be obstructed by curtains or furniture.
- Where dirt or dust could collect and block the sensor, and stop it working.
- In an area where the temperature could drop below -10°C or rise to above 40°C.
- · Where it could be easily knocked, damaged, or where it could be inadvertently removed.

IN WHICH ROOM TO PUT THE ALARM

Ideally, an alarm should be fitted in every room that contains a fuel-burning appliance. However, if there is more than one appliance and the number of units is limited, the following points should be taken into consideration when deciding on the best location.

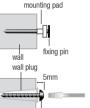
- If there is an appliance in a room where people sleep, a unit should be placed in that room.
- · A unit should be located in a room containing a flueless or open-flued appliance.
- If there is an appliance in a room which people use a lot, such as a sitting room, a unit should be placed in that room.
- In a bedsit, the unit should be placed as far away from the cooking appliance as possible but near to where the person sleeps.
- If the appliance is in a room not normally used, such as a boiler room, the unit should be placed just outside the room so that the alarm will be heard more easily.

INSTALLING THE ALARM

The unit can either be free-standing or wall mounted, using the fixings provided.

WALL MOUNTING INSTALLATION

Find a position to install the unit (see "where to put the alarm" and "where not to put the alarm").



screw

wall

Option 1 Special Mounting Pad with Fixing Pin (supplied) Place the fixing pin through the

mounting pad. Using a hammer, gently knock the fixing pin into the wall ensuring that the mounting pad is not hammered too firmly into the wall.

Option 2 Screw and wall plug (NOT supplied)

If the wall is too hard to use the fixing pin, use a No. 4 round head screw and wall plug.

Once activated and tested (see "using the alarm"), the unit can be hung on the protruding fixing pin using one of the 'keyholes' indicated on the back of the unit by the lines shown.

USING THE ALARM

To activate the unit, pull out the activation strip at the base of the unit. The green and red lights will flash briefly and the buzzer will sound a short chirp.

Press the test button and hold for up to 5 seconds and check that the red light flashes and the buzzer sounds.

The unit is now operating and is ready for use

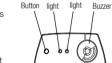




Red Green

Alarm Power

Gas inlet



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TESTING YOUR CARBON MONOXIDE ALARM

The unit should be tested monthly by pressing and holding the test button on the front of the unit for 5 seconds. If the unit is functioning correctly, the green light will stay illuminated, the red light will flash and the alarm will sound.

SPECIFICATION				
Model:	SF450EN			
Gas Detected:	Carbon Monoxide			
Detection Principle:	Electro-chemical cell			
Alarm Indication:	Flashing red light and audible alarm			
Alarm Levels:	50ppm Between 60 to 90 mins 100ppm Between 10 to 40 mins 300ppm Less than 3 mins			
Operating Temperature:	-10°C to 40°C			
Humidity Range:	30 to 90% RH			
Warm-up time after initial switch on:	Instantaneous			
Normal Operating Life:	Up to 7 years			
Battery life when in alarm:	At least 5 days			
Dimensions:	110mm x 76mm x 34mm			
Weight:	Approximately 180g			
CARE AND MAINTENANCE OF ALARM				

The Carbon Monoxide alarm is pre-calibrated at the factory and requires no maintenance other than to clean the outside case occasionally with a clean tissue. Ensure that the holes on the front of the unit are not blocked with dust or dirt. DO NOT USE CLEANING AGENTS, BLEACH OR POLISH,

END OF UNIT LIFE

The unit will operate for up to 7 years under normal use. The unit must be replaced when either the end of life signal is given (buzzer sounds 3 times per minute) or a fault warning signal (1 or 2 chirps per minute) is given.

DISPOSAL

When the unit has come to the end of its life, dispose of it in accordance with local regulations.

OPERATION OF THE ALARM	OPERATION OF THE ALARM				
	Green Power Light	Red Alarm Light	Buzzer		
Normal Operation When no Carbon Monoxide is present, the green power light will flash approximately once every minute. During normal operation the unit carries out a self-check test every 5 minutes.		L	Ø	1 flash per minute	
Alarm Condition When the unit detects Carbon Monoxide, it will give the alarm signal continuously. The red alarm light will flash and the buzzer will sound approximately 5 chirps per second.			€	5 chirps pe 1 second	
When the unit has been in alarm for 30 minutes the full alarm signal will be given once every minute.			◄	5 chips per second per minute	
Alarm Signal The Carbon Monoxide alarm can be distinguished from smoke detector alarms as it signals C.O. in morse code (approximately 5 chirps per second).	U		•	(-•	
Hush Feature If required, the audible alarm can be silenced for 5 minutes by pushing the button marked 'Test'. The red alarm light will continue to flash 5 times per second.	U		Ø	5 flashes pe 1 second	
If Carbon Monoxide is still present after the 5 minute hush period, the audible alarm will sound. NOTE: The hush facility will not operate at levels above 350ppm Carbon Monoxide. At levels below 350ppm the hush facility will only operate once, ie the audible alarm can only be silenced for one 5 minute period.			-	5 chirps pe 1 second	
Return to Normal Operation When the Carbon Monoxide gas disperses, the alarm signal will stop. The green power lamp will continue to flash approximately once every minute.		U	Ø	1 flash per minute	
Fault Warning If a fault is detected the buzzer will sound 2 short chirps every minute. The unit must then be replaced.	U	U	•	2 chirps per minute	
Battery Fault Warning/End of Battery Life The buzzer will sound 1 short chirp every minute.		U	◄	1 chirp per minute	
End of Unit Life When the unit comes to the end of its life the buzzer will sound 3 short chirps every minute. The unit must then be replaced. NOTE: With normal use the batteries will last for up to 7 years. However, battery life will be reduced if either a fault occurs with the battery or the unit remains in alarm for long periods of time. Should the Battery Fault Warning occur please contact your supplier.	U	L	€	3 chirps pe minute	

WHAT TO DO WHEN THE ALARM SOUNDS

Open all doors and windows to ventilate the area and allow the

If the unit raises an alarm, proceed as follows:

Where possible turn off all fuelled appliances and stop

· Evacuate the property leaving the doors and windows open.

Ring the gas or other fuel supplier on their emergency number

and explain the problem. Keep the telephone number in a

Do not re-enter the property until the alarm has stopped.

Do not use the fuel burning appliances again until they

person according to national regulations.

· Get medical help immediately for anyone suffering from the

effects of Carbon Monoxide poisoning such as headaches,

nausea, etc. and advise that Carbon Monoxide poisoning

have been checked and cleared for use by a competent

Carbon Monoxide to disperse.

using them.

prominent place

is suspected.

GAS EMERGENCY SERVICE **TELEPHONE NUMBER** 0800 111 999

Contact Numbers for OTHER FUEL Appliances: OIL USERS:

Contact OFTEC on 0845 658 5080 SOLID FUEL USERS: Contact HETAS on 0800 600 000 (Please note these numbers are only available during normal office hours)

Gas appliances should be checked for safety annually by a Gas Safe registered engineer. To find a registered engineer in your area call Gas Safe Register on 0800 408 5500 or look on the website: www.gassaferegister.co.uk.

User Manual also available in Braille. A Carbon Monoxide safety information sheet is available in: Puniabi: Urdu: Bengali: Gujarati and Hindi. For copies please call Honeywell Analytics on: 01202 645577

The Consumer product range from Honeywell Analytics, the UK's No 1 manufacturer and supplier of consumer gas alarms.

DISCLAIMER

This Carbon Monoxide alarm is designed to alert you to a potentially dangerous build-up of Carbon Monoxide gas. It is not designed to remedy a Carbon Monoxide problem nor to locate a specific source of Carbon Monoxide. Honevwell Analytics shall not be liable to pay for any Carbon Monoxide investigation or service call carried out or arranged in response to an alarm.

GUARANTEE

We guarantee your new Carbon Monoxide alarm for six years from the date of purchase or until the expiry date on the front of the unit, whichever occurs first - under normal use and service, to be free from defects in materials and workmanship. During this period we will, at our discretion, repair or replace any part of the Carbon Monoxide alarm which is found to be defective in either materials or workmanship providing this occurs under normal use and service. We shall, however, be under no obligation to repair. or replace units which are found to be defective in any way due to damage, neglect, unreasonable use or which have been tampered with or found to have been dismantled. Should a problem arise with your detector, please contact your supplier. If you have further problems, please contact Honeywell Analytics helpline direct on +44 (0) 1202 645577. If units need to be returned, send them in suitable packaging along with proof of purchase to:

> CO Returns, Honeywell Analytics, 4 Stinsford Road, Nuffield Industrial Estate, Poole, BH17 0RZ.

An accompanying letter should state clearly any problem with the Carbon Monoxide alarm. This guarantee does not affect your statutory rights.

Register your detector at

www.sfdetection.com

Find out more

www.honeywellanalytics.com

Contact Honeywell Analytics:

Europe, Middle East, Africa, India

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