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Carbon Monoxide Alarm

User Manual 2109M5009

Issue 2 - 02/02

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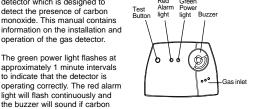
The green power light flashes at approximately 1 minute intervals to indicate that the detector is operating correctly. The red alarm light will flash continuously and the buzzer will sound if carbon monoxide is present

Thank you for purchasing this

detector which is designed to

operation of the gas detector.

detector which is designed to detect the presence of carbon monoxide. This manual contains



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

INTRODUCTION

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.
- A flue is partially or totally blocked.
 A room is not adequately ventilated.

EFFECTS OF CARBON MONOXIDE POISONING

Carbon monoxide binds to the haemoglobin in the blood and reduces the amount of oxygen being circulated in the body.

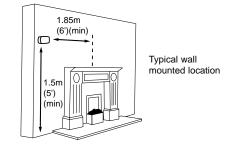
200ppm Slight headaches, tiredness, dizziness, nausea after 2-3 hours. Frontal headache within 1-2 hours, life threatening after

400ppm 3 hours. 800ppm Dizziness, nausea and convulsions within 45 minutes. Unconsciousness with 2 hours. Death within 2-3 hours.

1600ppm Headache, dizziness and nausea within 20 minutes. Death within 1 hour. 6400ppm Headache, dizziness and nausea within 1-2 minutes. Death within 10-15 minutes.

WHERE TO PUT THE DETECTOR

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 metres (5 feet) above the floor level and at least 1.85 metres (6 feet) from the appliance.



WHERE NOT TO PUT THE DETECTOR

Do not place the detector 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 by draughts. Where the air flow to the detector would be obstructed by curtains
- Where dirt or dust could collect and block the sensor, and stop
- In an area where the temperature could drop below -5°C or rise to above 40°C.
- Where it could be easily knocked, damaged, or where it could be inadvertently removed.

A substitute for either a smoke alarm or a combustible gas

To be seen as a substitute for the proper servicing of fuel-burning

This Carbon Monoxide Detector is NOT

appliances or the sweeping of chimneys.

CAREFULLY READ AND UNDERSTAND THE CONTENTS OF THIS INSTRUCTION MANUAL BEFORE USING THE

DETECTOR. 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 DETECTOR.

WARNING

THIS CARBON MONOXIDE DETECTOR 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

To be used on an intermittent basis, or as a portable detector for the spillage of combustion products from fuel-burning appliances



CAUTION

This carbon monoxide detector is designed for indoor use only. Do not expose to rain or moisture. Do not knock or drop the detector.Do not open or tamper with the detector as this could cause malfunction.

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 detector 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.
- . Ensure that the detector alarm can be heard by all those who are
- . 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 SF Detection

This pack contains:

One detector One fixing kit One instruction manual Ideally a detector should be fitted in or near every room that contains a fuel-burning appliance. However, if there is more than one appliance but only one detector, the following points should be taken into consideration when deciding where best to put the detector.

IN WHICH ROOM TO PUT THE DETECTOR

If there is an appliance in the room where people sleep, the detector should be placed in that room.

If there is an appliance in a room which people use a lot, such as a sitting room, the detector should be placed in that room.

In a bedsit the detector should be placed as far away from the cooking appliances as possible, but near to the place where people sleep.

If the appliance is in a room not normally used, such as a boiler room, the detector should be placed just outside that room so that the will be heard more easily.

INSTALLING THE DETECTOR

The detector can either be used as a free-standing unit or can be wall mounted using the fixings provided.

WALL MOUNTING INSTALLATION

Find a position to install the detector (see "where to put the detector" and "where not to put the detector")



mounting pad

Special Mounting Pad with Fixing Pin

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 Rawlplug (NOT supplied) If the wall is too hard to use the fixing pin, use a No. 4 round head screw and rawlplug.

Once activated and tested (see "using the detector"), the detector can be hung on the protruding fixing pin using one of the 'keyholes' on the back

OPERATION OF THE DETECTOR

When no carbon monoxide is present, the green power light will flash approximately once every 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 times per second.

When the detector has been in alarm for 30 minutes the alarm signal will be given once every minute.

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.

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

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.

Alarm Signal

The carbon monoxide alarm can be distinguished from smoke detector alarms as it signals C.O. in morse code.

Fault Warning

If a fault is detected the buzzer will sound 2 short chirps every minute. The detector must then be replaced.

Battery Fault Warning
The buzzer will sound 1 short chirp every minute.

End of Detector Life Warning
When the unit comes to the end of its life the buzzer will sound 3 short chirps every minute. The detector must then be replaced.

NOTE: with normal use the batteries will last the full 5 years life of the detector. However, battery life will be reduced if either a fault occurs with the battery or the detector remains in alarm for long

Should the Battery Fault Warning occur please contact your detector supplier.

1 per minute 1 per minute

Red alarm light

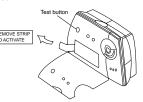
1 per minute

Green power light

USING THE DETECTOR

To activate the detector, open the front flap and pull out the activation strip. The green and red lights will flash briefly and the buzzer will sound a short chirp.

Press the test button and check that the red light flashes and the buzzer sounds. Close the front flap. The detector is now operating



TESTING YOUR CARBON MONOXIDE ALARM

It has been recommended by COGDEM (The Council of Gas Detection and Environmental Monitoring) that carbon monoxide alarms be tested externally at least once every 6 to 12 months with a suitable source of carbon monoxide gas.

SF Detection recommend Detectagas®, a test gas in a can, which enables safe and easy testing and is available from SF Detection, tel: 01202 645577

	SPECIFICAT	ION
Model:	SF350	
Gas Detected:	Carbon monoxide	
Detection Principle:	Electro-chemical cell	
Alarm Indication:	Flashing red light and audible alarm	
Alarm Levels:	350ppm V	Between 10 to 30 minutes Vithin 6 minutes. y BS7860: 1996)
Operating Temperature:	-5°C to 40°C	
Humidity Range:	30 to 90% RH	
Warm-up time after initial switch on:	Instantaneous	
Normal Operating Life:	5 years	
Battery life when in alarm: At least 5 days		
Dimensions:	110mm x 76mm x 34mm	
Weight:	Approximately 140g	

The carbon monoxide gas detector 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 detector are not blocked with dust or dirt. DO NOT USE CLEANING AGENTS, BLEACH OR POLISH.

The detector should be tested weekly by pressing the test button

END OF DETECTOR LIFE

The detector will operate for 5 years under normal use. The detector must be replaced when either the End of Detector Life Signal is given (buzzer sounds 2 short chirps every minute) or the test button does

During operation, the detector carries out a self-check test every minute. If a fault is found the End of Detector Life Signal is given

DISPOSAL

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

WHAT TO DO WHEN THE ALARM SOUNDS

If the detector raises an alarm, proceed as follows:

- Open all doors and windows to ventilate the area and allow the carbon monoxide to disperse.
- Where possible turn off all fuelled appliances and stop using them.
- 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
- 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 is suspected.
- Do not use the appliances again until they have been checked by an expert and the fault located and cleared. In the case of gas appliances this must be a **CORGI** registered installer.

GUARANTEE

We guarantee your new gas detector for five years from the date of purchase and under normal use and service, to be free from defects in materials and workmanship. During this period we will, at our discretion, repair, replace of refund the price of any part of the gas detector 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, replace or refund the price of 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. Defective units should be returned, in suitable packaging, along with proof of purchase to

SF Detection, 4 Stinsford Road, Nuffield Industrial Estate, Poole, BH17 0RZ.

An accompanying letter should state clearly any problem with the gas detector. This guarantee does not affect your statutory rights.

GAS EMERGENCY SERVICE **TELEPHONE NUMBER**

0800 111999

SF Detection 4 Stinsford Road Nuffield Industrial Estate Poole Dorset BH17 0RZ

Tel: (44) 01202 645577 Fax: (44) 01202 665331

Email: sales@sfdetection.com Website: www.sfdetection.com

