# TESTING YOUR CARBON MONOXIDE DETECTOR

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

### SPECIFICATION

Detection Principle:	Gas Detected:	Model:
Electro-chemical cell	Carbon monoxide	67005/51

100ppm Between 10 to 40 mins 300ppm Less than 3 mins

Alarm Levels:

50ppm Between 60 to 90 mins Flashing red light and audible alarm

Alarm Indication:

Humidity Range: 30 to 90% RH Operating Temperature:

-10°C to 40°C

Warm-up time after initial switch on: Normal Operating Instantaneous

Detector Life: 5 years Battery Life:

2 years minimum

Battery Life when in alarm: At least 5 days 110mm x 76mm x 34mm

## Weight: Approximately 140g

CARE AND MAINTENANCE OF DETECTOR

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. and requires no maintenance other than to clean the outside case The carbon monoxide gas detector is pre-calibrated at the factory

on the front of the unit. The detector should be tested monthly by pressing the test button

## END OF DETECTOR LIFE

every minute. During operation, the detector carries out a self-check test

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 not work (buzzer sounds 3 short chirps every minute) or the test button does

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

### NTENDED USE

The Carbon Monoxide Alarm, model number 67005/51, operates at a frequency of 869.2125MHz and is intended for use within the UK and EIRE compatible with LL400, 4000+ and Telecare Overlay Alarm Platforms.

## **OPERATION OF THE DETECTOR**

### Normal Operation

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

remedy a carbon monoxide problem nor to locate a specific source of carbon monoxide. Neither Tunstall nor SF Detection shall be liable to pay for any carbon monoxide investigation or service call carried

This carbon monoxide detector is designed to alert you to a potentially dangerous build-up of carbon monoxide gas. It is not designed to

DISCLAIMER

out or arranged in response to an alarm.

If the detector raises an alarm, proceed as follows:

WHAT TO DO WHEN THE ALARM SOUNDS

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

carbon monoxide to disperse.

Ring the gas or other fuel supplier on their emergency number

and explain the problem. Keep the telephone number in a

Evacuate the property leaving the doors and windows open.

Do not use the fuel burning appliances again until they have been

and advise that carbon monoxide poisoning is suspected of carbon monoxide poisoning such as headaches, nausea, etc.

checked and cleared for use by a competent person according to

Get medical help immediately for anyone suffering from the effects Do not re-enter the property until the alarm has stopped. Where possible turn off all fuelled appliances and stop using them

approximately 5 times per second and an alarm call will be sent via your social alarm equipment to the alarm receiving station. continuously. The red alarm light will flash and the buzzer will sound When the unit detects carbon monoxide, it will give the alarm signal

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

### Alarm Signal

alarms as it signals C.O. in morse code (5 per second). The carbon monoxide alarm can be distinguished from smoke detector

### Hush Feature

pushing the button marked 'Test'. The red alarm light will continue to flash 5 times per second. If required, the audible alarm can be silenced for 5 minutes by

If carbon monoxide is still present after the 5 minute hush period, the audible alarm will sound

5 minute period carbon monoxide. At levels below 350ppm the hush facility will only operate once, ie the audible alarm can only be silenced for one NOTE: The hush facility will not operate at levels above 350ppm

## Return to Normal Operation

every minute. The green power lamp will continue to flash approximately once When the carbon monoxide gas disperses, the alarm signal will stop.

### 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. An auto low battery warning alarm call should already have been raised to indicate low battery to your alarm receiving centre.

## End of Detector Life Warning

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

detector remains in alarm for long periods of time. life will be reduced if either a fault occurs with the battery or the NOTE: with typical use the batteries will last 2 years. However, battery

OCCUR, PLEASE CONTACT TUNSTALL'S HELP DESK ON 08705 661234 SHOULD THE FAULT WARNING OR BATTERY FAULT WARNING

## IED PARAMETERS

Class 2.7 device. Approval: This product is marked with a CE mark and constitutes a

The radio system has been designed to comply with EN50134 series of European Norm standards specific to Social Alarms.

Immunity for components of fire, intruder and social alarm systems. The radio triggers (and receiver) are in accordance with the specific 869.25MHz). They operate at 869.2125 MHz. European Social Alarm radio frequency band allocation (from 869.20 to (EMC) standard BS EN 50130 part 4; which sets criteria for EMC The product exceeds the requirement for Electromagnetic Compatibility

nano Watts

Adjacent channel power <100

micro Watts

maximum

Frequency error ± 3 kHz

Effective radiated power 200

1 (<0.1%):

pre programmed cycle leading to a typical duty cycle class of

A class 2.7 device

The transmitter follows a

Short Range Devices (SRD) ETSI EN 300-220: Its parameters are: The radio transmitter complies with mandatory radio standards for

operating temperature between Intended environment is group II indoor in general with intended standard alarm telephone) Effective range up to 50m (into

Expected battery life 24 months

Intended area for use is Europe

			- C-							Green power light
c	c	C	C			S. C.	ic.		c	Red alarm light
$\wedge$	lack	lack	Z	<b>A</b>	Ø	A	<b>A</b>	lack	Ø	Buzzer
3 per minute	1 per minute	2 per minute	1 per minute	5 per 1 second	5 per 1 second	0	5 per 1 second per minute	5 per 1 second	1 per minute	

A class 2.7 device

## Declaration of Conformity

suites have been carried out DN14 0HR Declare that the Carbon Monoxide Detector conforms to the essential requirements of the RTTE directive 1999/5/EC. Essential radio test We, Tunstall Telecom of Whitley Lodge. Whitley Bridge, Yorkshire, England,

### Applicable standards Model Number: 67005/51

EMC

Social Alarm

EN50130-4:1995 + amendment A1:1998 ETS! EN 300 220-3:2000 EN 60950:2000 ETSI EN301-489-1:(2000-08) Class 1

EN 55022:1998

Signed &

Date

4 September 2003

The CE mark was first applied in September 2003 Associated Summary Information (03RTTE0022A)

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### EN50291:2001 User Manual 2109M5030 Carbon Monoxide Alarm

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EN50291:2001 KM36020

to indicate that the detector is operating correctly. The red alarm approximately 1 minute intervals The green power light flashes at

monoxide. This manual contains information on the installation

and operation of the gas detector

Thank you for purchasing this detector which is designed to

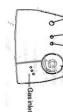
detect the presence of carbon

Test Button Red Alarm light

Buzzer

the buzzer will sound if carbon light will flash continuously and

monoxide is present.



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

## WHAT IS CARBON MONOXIDE?

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

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

## 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.



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 DETECTOR MAY NOT PROTECT

## This Carbon Monoxide Detector is NOT

- A substitute for either a smoke alarm or a combustible gas 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



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

The detector 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 natural gas, propane, butane etc. fuels such as wood, charcoal, coal, heating oil, paraffin, petrol,
- appliance such as any gas fires, central heating boiler, room heaters, water heaters, cookers, grills, etc. be installed in or near to every room that has a fuel burning Ideally, it is recommended that a carbon monoxide detector should
- This detector should only be installed by a competent person.
- Ensure that the detector alarm can be heard by all those who are intended to hear it.
- 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 fixing kit
One instruction manual

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

Frontal headache within 1-2 hours, life threatening after 2-3 hours

Dizziness, nausea and convulsions within 45 minutes.

800ppm

1600ppm

400ppm

Death within 10-15 minutes. Headache, dizziness and nausea within 1-2 minutes

6400ppm

## POSITIONING THE DETECTOR

- Detectors located in the same room as a fuel-burning appliance
- The detector should be at a distance of between 1m and 3m from the potential source.
- If there is a partition in a room, the detector should be located on
- Detectors located in sleeping rooms and in rooms remote

mounting pad

- Detectors should be located relatively close to the breathing area
- of the occupants.

Do not place the detector in the following areas:

- In or below a cupboard.
- Directly above a sink or cooker.
- Next to a door or window or anywhere that would be affected by

- Where it could be easily knocked, damaged, or where it could
- On metal surfaces (where radio range could be affected).

# **EFFECTS OF CARBON MONOXIDE POISONING**

Slight headaches, tiredness, dizziness, nausea after

Death within 1 hour. Unconsciousness with 2 hours. Death within 2-3 hours. Headache, dizziness and nausea within 20 minutes.

- be at least 300mm from any wall. greater than the height of any door or window but at least 150mm from the ceiling. If the detector is mounted on the ceiling it should If the detector is located on the wall it should be located at a height
- the same side of the partition as the potential source.
- In rooms with sloped ceilings, the detector should be located at
- the high side of the room.
- from a fuel burning appliance

## WHERE NOT TO PUT THE DETECTOR

- Outside the building.
- in a damp or humid area.
- draughts, eg, extractor fan or air vent.
- 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 -10°C or rise to above 40°C.
- be inadvertently removed.

# IN WHICH ROOM TO PUT THE DETECTOR

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

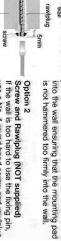
- If there is an appliance in a room where people sleep, a detector should be placed in that room.
- A detector should be located in a room containing a flueless or open-flued appliance
- If there is an appliance in a room which people use a lot, such as a sitting room, a detector should be placed in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

## INSTALLING THE DETECTOR

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

## WALL MOUNTING INSTALLATION

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



wall

Place the fixing pin through the mounting pad. Using a hammer, gently knock the fixing

(supplied)

Special Mounting Pad with Fixing Pin

Screw and Rawlplug (NOT supplied) Option 2

can be hung on the protruding fixing pin using one of the 'keyholes' on the back. Once activated and tested (see "using the detector"), the detector If the wall is too hard to use the fixing pin, use a No. 4 round head screw and rawlplug

wall

initiate a radio transmission for programming. Refer to the installation guide for the appropriate Social Alarm equipment to place in programming mode. Use the test button to

## USING THE DETECTOR

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

buzzer sounds. Ensure also that a call is made through to your alarm Press the test button and check that the red light flashes and the and is ready for use. receiving station. Close the front flap. The detector is now operating

