

## IF THE ALARM IS ACTIVATED

Keep calm and carry out the following actions, not necessarily in the order given:

- Extinguish all naked flames, including all smoking material
- Do not switch on or off any electrical equipment, including the gas detection apparatus
- Turn off the gas supply at the gas main control and/or (with an LPG supply) the storage tank
- Open doors and windows to increase ventilation and disperse gas
- Do not use a telephone in the building where the presence of gas is suspected
- If the alarm continues to sound and the leak cannot be isolated, vacate the premises and IMMEDIATELY INFORM the gas supplier and/or the gas emergency 24 hr service in order that the installation may be tested and made safe, and any necessary repair carried out



## GUARANTEE

Sensotec 4-Warn Ltd guarantees to you, as a purchaser, that the enclosed gas alarm will be free from defects in material, workmanship or design under normal use and service for a period of 1 year.

This Guarantee is not assignable. Our liability to you, under this guarantee is limited to repairing or replacing any part which we find to be defective in material, workmanship or design, free of charge to the customer, upon sending the alarm with proof of date of purchase, postage paid to Sensotec 4-Warn Limited, Enterprise Park, Bala, Gwynedd, LL23 7NL, UK.

The terms of this guarantee will not apply in the following circumstances: If the alarm has been modified, dismantled, contaminated, damaged, neglected or otherwise abused or altered following the date of purchase, or if it fails to operate due to incorrect siting, installation, maintenance or inadequate or over voltage AC electrical power, or damage caused by failure to abide by the instructions supplied. It is specifically drawn to the users attention that substantial periods in alarm will shorten sensor life, during which time the gas alarm will have provided valuable protection; no Claim under the guarantee will be entertained.

The liability of Sensotec 4-Warn Ltd, arising from the sale of this alarm or under the terms of this guarantee shall not in any case exceed the cost of replacement of the alarm. In no case, shall Sensotec 4-Warn Ltd be liable for consequential loss or damage resulting from the failure of the alarm or the breach of this or any other guarantee, express or implied or for damage caused by failure to abide by the instructions supplied.

This guarantee does not affect your statutory rights.



Due to Sensotec 4-Warn's commitment to Research, Development and Product improvement, specifications may be subject to amendment without prior notice.

For further information contact:

Sensotec 4-Warn Limited

Enterprise Park, Bala, Gwynedd, LL23 7NL

Tel: +44 (0) 8700 711 444

Fax: +44 (0) 8700 722 444

[www.4-warn.com](http://www.4-warn.com)

Gas Emergency Service No. 0800 111 999

Manufactured to BS EN ISO 9001:2000



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# 4GMR Range GAS ALARM INSTRUCTION MANUAL



Thank you for purchasing a Sensotec 4-Warn Gas Alarm, congratulations on owning this highly reliable and sensitive detector, which will provide your family with many years protection. Please take the time to read this manual carefully and retain for reference as long as your Gas Alarm is in use. It contains vital information on the operation and installation and the manual should therefore be regarded as part of the product. If you are installing the unit for some one else, the manual must be given to the householder or final user: it should be handed on to any subsequent user.

Gas alarms from the new 4GMR range have been designed and manufactured utilising high quality sensors. The catalytic sensor utilised in the 4GMR detector range has, up to now, only been found in the field of industrial gas detection.

These new gas alarms comply with EN50194:2000 - Electrical Apparatus for the detection of Combustible Gas in Domestic Properties, and have been designed to detect Methane (Model 4GMR-NG) or LPG (Model 4GMR-LPG) at a preset alarm threshold corresponding to 10% LEL.

We recommend competent personnel carry out the installation as incorrect positioning of the detector can reduce its effectiveness.

## OPERATION

### POWER ON

The green LED is lit constantly

### POWER FAULT

The green LED extinguishes

### SENSOR FAULT

1. Visible warning. A yellow LED lights up.
2. Audible warning.  
The internal buzzer emits a continuous sound.

### An ALARM condition generates the following events:

1. Visible warning, a red LED lights up.
2. Audible warning, the internal buzzer emits a continuous sound.
3. Activation of the output relay. A voltage free change over contact relay output is available on the PCB. The relay contact can be utilised to activate auxiliary devices such as solenoid valves. Once the detector enters an alarm condition, the relay will activate and can be linked to an auxiliary device to automatically shut-off the gas supply.

## Testing

Press the TEST button for 5 seconds: the red LED will light up and both the buzzer & relay will activate. Once the alarm test is complete, the red LED will switch off and the buzzer and relay will return to their normal status.

## Specification

Alarm Level	3 to 30% LEL
Preset Alarm Threshold	10 % LEL (0.5% Vol)
Alarm Sound level	85 Decibels (dB) at 1m
Warm up Time	3 mins
Time to Alarm	< 10s
Indicators	Power on - Green Light Alarm - Red Light Flashes Fault - Orange Light
Operating Voltage	220V ac
Power Consumption	< 11W (in alarm)
Current Consumption	50 mA
Relay Contacts Rating	5A at 250Vac
Operating Temperature	-10° to + 40°C
Storage Temperature	-20° to + 60°C
Relative Humidity	0 to 90 % RH Non Condensing
IP Rating	IP42
Weight	370g (approx)
Dimensions	75mm x 155mm x 42mm
Guarantee	1 Year
Operating Life Expectancy	5 Years

## Installation

THE INSTALLATION OF A GAS ALARM IS NOT A SUBSTITUTE FOR REGULAR MAINTENANCE OF YOUR APPLIANCES WHICH SHOULD BE SERVICED REGULARLY ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS BY A COMPETENT PERSON WHO MUST BE CORGI REGISTERED IN THE CASE OF GAS APPLIANCES.

THE ALARM SHOULD NOT BE MOUNTED OUTSIDE, IN AN ENCLOSED SPACE (E.G. INSIDE A CUPBOARD OR BEHIND A CURTAIN), DIRECTLY ABOVE A SINK OR A COOKER, NEXT TO A WINDOW, DOOR OR EXTRACTOR FAN, IN DAMP OR HUMID AREAS OR WHERE THEY ARE LIKELY TO BE KNOCKED OR DAMAGED.

Methane gas is lighter than air and will tend to rise upwards; in order to maximise the effectiveness of detection, the unit should be installed on the wall not more than 30cm from the ceiling and not more than 5 metres from the gas appliance.

LPG gas is heavier than air and will tend to sink downwards; the unit should therefore be installed on the wall not more than 30 cm from the floor and not more than 4 metres from the gas appliance.

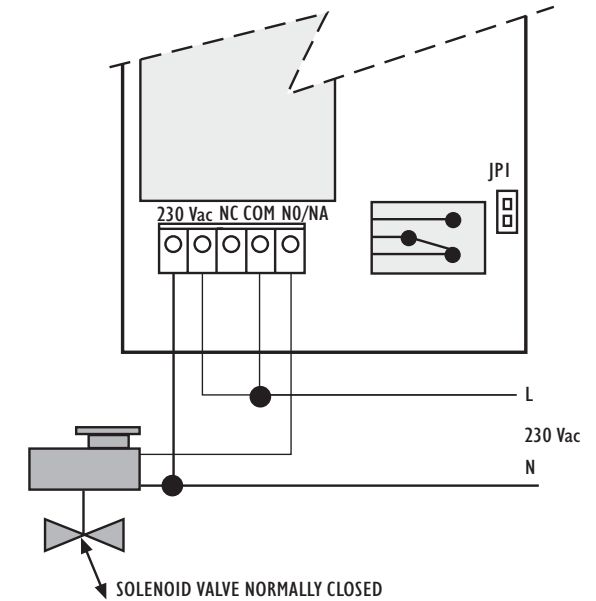
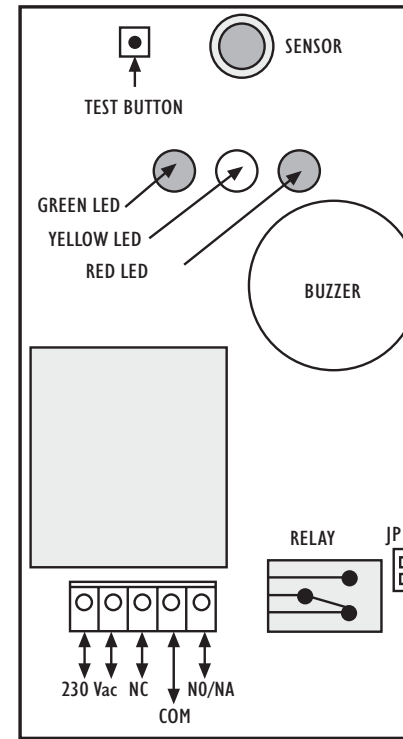
Once connected to the mains power supply, the detector needs a warm-up period of just a few minutes, after which time the unit will operate correctly.



### WARNING

Use authorised personnel for the installation, routine and emergency servicing of the detector.

## Connections



JPI CLOSED: IN EVENT OF ALARM THE RELAY ACTIVATES FOR ONE SECOND AND THEN DE ACTIVATES

JPI OPEN: IN EVENT OF ALARM THE RELAY ACTIVATES AND REMAINS ACTIVATED UNTILL THE ALARM IS RE-SET

All Models 4GMR-NG, 4GMR-LPG should be installed and permanently wired by a qualified electrician in accordance with BS 7671 (the I.E.E. Wiring Regulations).

The supply should be un-switched and must be protected by a circuit breaker or fuse rated no greater than 6 Amps.

### AVOID USING THE FOLLOWING NEAR THE GAS ALARM AS THEY MAY ACTIVATE IT

- Aerosol sprays
- Alcohol used in cooking
- Cigarette, cigar or pipe smoke
- Strong household cleaning agents, polishes and solvents
- Gas from a cigarette lighter

Note: To clean the unit, occasionally wipe with a clean damp cloth. Do NOT use cleaning agents, bleach or polish.

**On no account use alcohol derivatives or composites.**