

## OWNER'S MANUAL

### 12VDC POWERED COMBUSTIBLE GAS LEAKAGE DETECTOR

### MODEL: OM3000

(Manufacturer Ref. MT6-3000)



**TYPE B PRODUCT**

**EN 50194-1:2023**

**IMPORTANT! PLEASE READ CAREFULLY AND SAVE.** This owner's manual contains important information on the correct installation and operation of your gas detection alarm. Read this manual fully before attempting installation and retain for future reference.

### PRODUCTION DESCRIPTION

The OM3000 Gas Alarm is intended to detect leakage of natural gas and reticulated gas. It is intended for installation in private homes, caravans and motor caravans. The alarm is connected to a power source of 12V DC when used in caravans and motor caravans, and connected to the mains through an external transformer 230V AC/12V DC when used in houses. The alarm is supplied complete with mounting brackets, screws, rawl plugs and with a transformer with 1.75m connection cable.

### FOR USING INSIDE A CARAVAN AND MOTOR CARAVAN

Commonly occurring materials like cleaning detergent, washing powder, serpentine, paraffin, gasoline, vapours of gases, cleaning fluids, polishes, etc. may affect the reliability of this gas leakage detector. So, the unit must be kept far away from these materials.

### MAIN FEATURES

- Hot Wire Type Sensor
- Easy installation and maintenance
- Sensor self-diagnostics on the electronic circuit
- Modernised design
- Detect all sorts of combustible gases, LPG and LNG including reticulated gas
- Ideal for all kitchens
- Excellent reliability and high stability
- Self-test function
- Durable sensor head
- Less affected by organic solvent
- High Accuracy
- 85 dB alarm
- Three-year limited warranty

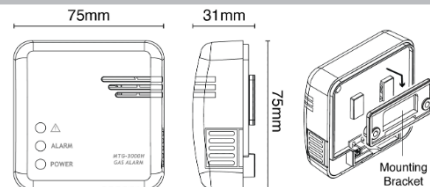
### SPECIFICATIONS

Power Source	: DC12V+/-5%
Transformer	: Connected to AC230V, 50Hz, 9W, 12V DC 300mA
Sensitivity	: Corresponds to a concentration of 12% of the relevant lower explosive limit
	Propane 0.2%
	Butane 0.17%
	Methane 0.53%
Power Consumption	: 1.5W (In Alarm)
	1W (Standby)
Operation Temperature:	-10°C to +40°C
Current Max	: 110mA
Ambient Humidity	: Max 95%
Dimension	: 75 x 75 x 35 mm
Horn Level	: 85 Decibels at 3 metres
Standby Mode	: Green LED ON
Alarm Mode	: Red LED flashes and an acoustic alarm
Fault Mode	: Yellow LED ON
Type Of Gas Sensed	: Natural gas, reticulated gas mixture, Propane, Methane, Butane, Hydrogen, LPG

### CAUTION: PLEASE READ

- Do not cover the alarm with any object. This could diminish the performance of the sensor.
- Make sure that the alarm does not come into contact with moisture.
- Protect the alarm from strong magnetic or electric fields, or heavy mechanical strain and shocks.
- Commonly occurring materials like cleaning detergent, washing powder, turpentine, paraffin, gasoline, vapours of gases, cleaning fluids, polishes, paints, cooking operation, etc. may affect the reliability of this gas leakage detector. So, please keep the unit far away from these materials.

### GAS ALARM DIAGRAM



### TABLE OF CONDITIONS AND ACTION

Condition	Signal	Explanation & Action
Power On (Self-test)	The red LED flashes and buzzer chirps 6 times simultaneously within 6 seconds.	Alarm is performing a self-test when it has Power On. Check section – "OPERATING THE COMBUSTIBLE GASES DETECTOR" for detail.
Standby Mode	The green LED glows solid.	The detector is powered on and in standby mode. The gas level in the surrounding area is normal.
Gas Warning Mode	The red LED flashes and buzzer chirps.	The detector detects high level of gas. This could be happening if it is being tested. Check section – "TESTING THE COMBUSTIBLE GASES DETECTOR" for details.  High level of gas detected not under a test condition, there is a high risk of combustible gas in the area. Check section – "INSTRUCTIONS ON EMERGENCY ACTIONS" for solution.
Fault Warning Mode	The yellow LED stay solid and buzzer emits a flat chirping noise.	The detector detected there is a fault or a malfunction in the circuit.  Check section – "WHEN FAULT LED ON" for details.
End of Life Warning	The buzzer chirps 3 times every 5 seconds.	The detector has reached the end of its life. Replace it with a new alarm unit.  Check section – "MAINTAINING YOUR COMBUSTIBLE GASES DETECTOR" for detail.

### LOCATING THE GAS ALARM

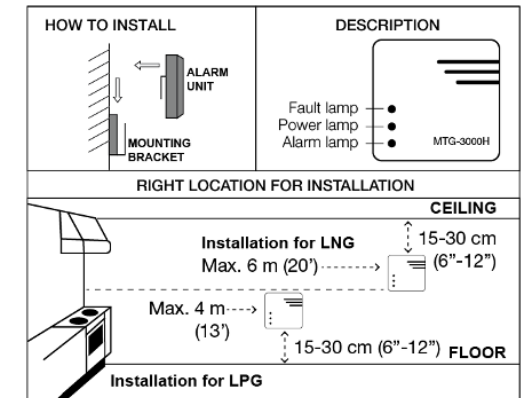
The OM3000 Combustible gases detector is intended for indoor use in dry rooms where combustible gas leakage might happen. It is important that the alarm signal can be easily heard in case of gas leakage.

- The recommended position for mounting of the gas detector shall follow the regulation of EN 50244
- **For detecting natural gas (LNG)** - The alarm should be installed 15-30cm below the ceiling and the maximum distance away from the furnace or gas appliances is 6 metres. Make sure that the mains socket for connection of the 12V DC mains adapter is located max. 2m away from the installation position of the combustible gas detector. Additional Consideration: it shall be above the highest window or door opening.
- **For detecting LPG** - The alarm should be installed 15-30 cm above the floor and the maximum distance away from the furnace or gas appliances is 4 metres. Additional Consideration: it shall not be located adjacent to exits.
- The recommended places to install are in the kitchen, living areas and garage.

### Areas to be avoided include the following: -

- Situations where the temperature may fall below -10°C or rise above +40°C
- Do not locate Gas Leakage Alarm in turbulent air from fans, doors, windows, etc.
- Humid areas such as bathrooms, shower rooms where the relative humidity may exceed 95%
- Outside buildings, e.g. to guard open crates of bottled gas.
- Enclosed areas (e.g. in cupboards or behind curtains), which could prevent the alarm from responding in the event of a gas leak.
- Areas in which dust or dirt can clog the sensor.
- Directly next to an oven, washbasin or drain.

### INSTALLING THE GAS ALARM



- Electricity must be turned off at system supply before beginning installation to prevent electrical shock or equipment damage (direct wire situations only).
- Having established the mounting location ensures that there is no electrical wiring or pipe work in the area adjacent to the mounting surface.
- Take the mounting bracket and mark the two mounting holes locations.
- Drill holes in the positions marked.
- Insert wall plugs into the drilled holes.
- Screw mounting bracket to mounting surface. DO NOT OVER TIGHTEN.
- Plug in the connector of the 12V DC power source/ the transformer to alarm jack. When connected direct from a 12V DC battery, a switch can be installed between the battery and the Gas Alarm.
- Connect the Gas Alarm to the mounting bracket by sliding on it.
- Connect the transformer to a 230V socket outlet. The Gas Alarm sounds within 5 seconds (self-test).
- When it stops, the green LED should light, and the Gas Alarm is ready for use.
- If you are uncertain which type of gas you use or you have problems installing the gas alarm, you must have the alarm installed by a suitably qualified person.

**THE ALARM SHOULD BE INSTALLED BY A COMPETENT PERSON.**

## OPERATING THE GAS ALARM

Once the Gas Alarm has been installed a GREEN indicator light (LED) will illuminate, and the Gas Alarm conducts a sound test itself, while the RED indicator light (LED) will be flashing quickly. After a few seconds, the Gas Alarm will be muted and then reset into normal mode after this period. Then the Gas Alarm is ready for use.

If gas is detected the unit will emit a loud pulsating alarm and a RED indicator light (LED) will flash until the gas concentration in the air decreases to a certain level. This will happen before any risk of explosion.

If the power supply of 12V DC to the alarm has been disconnected, and then re-established, the alarm will conduct a self-test again. This function ensures the Gas Alarm is in proper operation when in use.

## TESTING THE GAS LEAKAGE ALARM

It is recommended that you test your gas alarm once a week to ensure the detector is working correctly.

Instruction on the use of any test method supplied with the alarm and a warning on false alarms that may be drawn from the application of other methods, such as gas lighters, flammable vapours, etc.

Use gas from a cigarette lighter, and let it spread around the sensor which is situated at the grills in the left bottom side. A loud pulsating alarm should sound and a RED flashing indicator light (LED) can be seen to indicate the correct function. The Gas Alarm will stop automatically when the air around the sensor is clean from gas. Test your Gas Alarm frequently to insure proper operation.

## INSTRUCTION ON EMERGENCY ACTIONS

**CAUTION - When a gas leakage occurs, there is a possibility of smelling gas prior to the alarm activating.**

It is recommended that the following advice shall be given in the event of an alarm sounding or the smell of gas even without an alarm:

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

- Extinguish all naked flames, including all smoking material;
- Turn off all gas appliances;
- 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;
- Do not use a telephone in the building where the presence of gas is suspected.

## WHEN ALARM OCCURRED

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

- Extinguish any naked flames, burning tobacco or candles etc. immediately.
- When the alarm signals are given under normal conditions, shut off the main gas tap, bottle valve, or leaking source and open windows and doors to provide ventilation.

- Do not switch any electrical devices (light switch, torch, door bell, telephone, intercom, or other electric consumers) on or off.
- Touching electric switches is prohibited. Only a little spark could cause an explosion.
- If leaking gas is indicated constantly or repeatedly, please contact your energy provider. Do not use the telephone or any other electrical device near or around the gas leak to notify the provider.

If the alarm continues to operate, even after an alarm resetting action where appropriate, and the cause of the leak is not apparent and/or cannot be corrected, vacate the premises and IMMEDIATELY NOTIFY the gas supplier and/or the gas emergency 24h-service in order that the installation may be tested and made safe, and any necessary repair carried out.

If the alarm stops or a latching alarm is reset according to the instructions of the manufacturer and the reason for the alarm having operated is identified, (for example a gas tap switched on with the burner unit), after stopping the gas release and ensuring that all appliances are turned off, the main gas supply may be reinstated.

## MAINTAINING YOUR GAS ALARM

Clean your gas leakage alarm regularly to prevent dust build up. This can be done using a vacuum cleaner with the brush attachment. Clean gently around the front gridded section and sides.

If the alarm fails to operate currently, please send back to the address of manufacturer shown on the back label of the detector.

## END OF LIFE SIGNAL AND REPLACEMENT

This combustible gas detector has a self-diagnostics feature. When it reaches the end of its sensor life (5 years from the date of manufacture), it will chirp 3 times every 5 seconds. This indicates this gas alarm must be replaced with a new one.

If the alarm has not yet emitted the end-of-life signal but it has already been installed for at least 5 years (check manufacturing date from the back of alarm), user should still replace this alarm as soon as possible as the gas alarm expires after approximately 5 years.

To deactivate the gas alarm, disconnect the electrical power by pulling out the electrical jack from the alarm unit. Then, consult your local distributor for the parchment and installation for a new gas alarm.

**CAUTION - Do not try to fix the unit yourself – this will void your warranty! The alarm should not be tampered with. Do not open the enclosure, block the ventilation or the path of sensor, or other actions that may cause possible hazards to malfunction of gas leakage alarm.**

If you are uncertain which type of gas you use or you have problems installing the gas alarm, you must have the alarm installed by a suitably qualified person.

The service life of the gas alarm expires after approximately 5 years of operation. Then, it should be replaced.

## IMPORTANT SAFEGUARDS

Installation of your gas leakage alarm is only one step in your safety plan. Other important steps should be taken to further improve your safety:-

- Install the gas alarm properly, following this instruction leaflet
- Test your gas alarm weekly
- Make sure that your electrical circuits are not overloaded
- You may smell gas prior to the gas alarm giving an alarm.

**IMPORTANT - This product is a sealed unit and cannot be repaired. If the unit is tampered with it will invalidate the guarantee. If the unit is faulty please return it to your original supplier with your proof of purchase.**

## WHEN FAULT LAMP ON

The device carries out a self-checking routine for your safety. Possible errors are displayed by the FAULT LAMP flashing and a coincident beeping noise from the device. This fault indicator may also be triggered by problem inside the device.

If a fault is indicated you must check first:

- Whether the ambient temperature is outside the specified range (-10°C to +40°C).
- Whether chemicals present in the air may have caused the fault, e.g. a high concentration of acid or alcohol. If this cannot be confirmed, then try the device in another room. If no fault is indicated there then the problem lies in the surroundings.

If the fault indicator is still active then the problem lies within the device itself:

- The gas alarm has suffered internal damage.
- The gas alarm has been used for approximately 5 years.

Then, it should be replaced.

## LIMITED WARRANTY

This Gas Alarm is warranted to be free from defects in materials and workmanship under normal use and service for a period of three years from date of purchase.

NEWFIELD GROUP LTD (NEWFIELD) will not be obligated to repair or replace parts which are found to be in need of repair because of misuse, damage or alterations occurring after the date of purchase.

The liability of NEWFIELD arising from the sale of this Gas Alarm shall not in any case exceed the cost of replacement of the Gas Alarm.

NEWFIELD shall have no liability for any personal injury or property damage, or any special incidental, contingent or consequential loss or damage of any kind resulting from a fire. The exclusive remedy for breach of the limited warranty contained herein is the repair or replacement of the defective product at NEWFIELD's option. In no case shall NEWFIELD's liability under any other remedy prescribed by law exceed the purchase price.

Send the Gas Alarm with proof of purchase, postage and return postage prepaid, to your local supplier.

Your alarms are not a substitute for property, disability, life or other insurance of any kind. Appropriate coverage is your responsibility. Consult your insurance agent.

This does not affect your statutory rights. This alarm is only suitable for single occupancy private dwellings only and not intended for multi occupancy private dwellings or commercial or industrial dwellings.

## DISPOSAL

Waste electrical products should not be disposed of with normal household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice

**Manufactured for  
Newfield Group Ltd  
Christchurch, New Zealand  
03-348-0799  
[www.orcasafety.co.nz](http://www.orcasafety.co.nz)**