

**HF500NG / HF500LPG
Residential Flammable Gas Detector**
NG - Natural Gas
LPG - Liquefied Petroleum Gas

Contact Us

www.honeywellanalytics.com
www.hf500gasalarm.com
www.honeywell.com

UK customer service centre

Honeywell Analytics Ltd.
4 Stinsford Road
Nuffield Industrial Estate
Poole, Dorset BH17 0RZ
Tel: +44 (0)1202 645577
Fax: +44 (0)1202 665331
consumer@honeywell.com

Acts for and on behalf of Life Safety
Distribution AG, Javastrasse 2, 8604 Hegnau,
Switzerland by its Authorised Representative
Honeywell Inc.



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HF500NG
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Thank you for purchasing this gas detector, which is designed for use in domestic premises (including static caravan holiday homes) to detect leaks of flammable gas. The detector must be connected to mains power.

This manual contains important safety information about the installation and operation of the detector. Read the manual carefully and keep it in a safe place for future reference.

Warnings

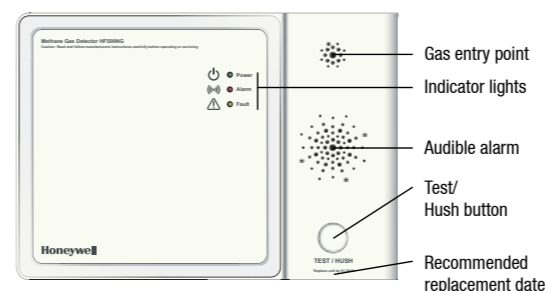
- This gas detector must be installed by a competent person qualified to carry out electrical work according to current national wiring regulations. Additionally, any changes to the gas installation, e.g., fitting of an automatic gas shut-off valve, must be carried out by a person qualified to the national regulations for gas installations.
- The gas installation and shut-off device (where used) must comply with the appropriate national regulations.

Description

The detector has three status indicator lights, an audible alarm and a test/hush button.

The **GREEN** light indicates that the power to the detector is **ON**.
The **RED** light indicates that **GAS** has been detected.
The **YELLOW** light indicates that there is a **FAULT** with the detector.

The detector has two relays, alarm and fault. The alarm relay can be used to activate an external device such as a gas shut down valve, or an automatic signal such as a call to the emergency services. The fault relay can be used to activate a signal to an external device such as a supervisory panel.



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Detector Operation - continued

If the alarm stops, check the following: -

1. Has the source of the gas leak been identified (for example a gas tap switched on with the burner unlit)?
2. Has the gas leak been stopped?

If the answer to either of these questions is no, then notify the gas supplier or the gas emergency service so that the installation may be tested and made safe, and any necessary repair carried out.

Summary Table

Condition	Power Light (Green)	Alarm Light (Red)	Fault Light (Yellow)	Audible Alarm	Meaning
Power on, no gas				OFF	Normal operation
ALARM, gas detected				ON	Gas detected
Power Fault				Intermittent single chirp	There is a fault with the electrical installation
Sensor Fault				2 long chirps per minute	The detector must be replaced
Software Fault				Continuous chirps	The detector must be replaced

If your Detector is in alarm

UK GAS EMERGENCY SERVICE TELEPHONE NUMBER
0800 111 999

Tell the operator that your flammable gas detector is in alarm and you suspect that there is a gas leak.

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.

Precautions during use

Do not tamper with the detector – there is a risk of electric shock or damage to the detector.

If required, clean the surface of the detector with a lightly dampened cloth. Do not use detergent as this may damage the internal sensor.

Some materials such as cleaning fluids, polishes, paints, cooking operations etc. may generate fumes which could cause false alarms from the detector or affect its long term reliability. Avoid using these substances close to the detector.

Warning

Silicones can permanently damage the detector. Avoid using silicone sealant or any household or cosmetic product containing silicone in the vicinity of the detector.

Monthly Detector test

The detector should be tested once per month. To test the detector, press and hold the **“TEST/HUSH”** button on the front cover for 1 second. The **RED** light will flash 4 times, and then the **YELLOW** light will flash 4 times, accompanied by the audible alarm sounding 8 times.

Caution: Testing the detector with an uncontrolled source of gas (for example a cigarette lighter) may give a misleading result and could damage the detector.

Conformance to European standards

The HF500NG Natural Gas detector and the HF500LPG Liquefied Petroleum Gas detector conform to EN50194-1, which is the European Standard for electrical apparatus for the detection of combustible gases in domestic premises. A full EC declaration of conformity is available at our website. Navigate to www.honeywellanalytics.com and select Resources, then EC Declarations.

End of Life



The detector should operate for 5 years under normal use. The recommended replacement date is shown on the front of the detector.

When the unit has come to the end of its life, dispose of it in accordance with local regulations. It is classified as electronic waste and should be disposed of separately from household waste.

Disclaimer

This flammable gas detector is designed to alert you to a potentially dangerous build up of flammable gas. It is not designed to remedy a flammable gas problem nor to locate a specific leak of flammable gas. Honeywell shall not be liable to pay for any investigation or service call carried out or arranged in response to an alarm.

Warning

Honeywell warrants your new gas detector for two years from the date of purchase by the end user or until the expiry date on the front of the unit, whichever occurs first, according to the specifications as set out in this instruction manual.

We will, at our discretion, repair or replace, with same or similar product, any part of the gas detector which is found to be defective in either materials or workmanship within the warranty period.

We shall be under no obligation to repair or replace units which are found to be defective in any way due to unreasonable use or neglect, improper storage, used or maintained not in accordance with the user manual or if the product has been tampered with or found to have been dismantled.

This warranty is instead of and excludes all warranties implied by law, and to the extent permitted by law, our liability under the warranty is capped at the price of the product.

In no event are we liable for (a) any direct, indirect, incidental, consequential loss; (b) any loss arising from business interruption; (c) loss of profits; (d) loss of revenue; (e) loss of use of any property or capital; (f) loss of anticipated savings or loss of data.

Troubleshooting and getting assistance

After you have carefully read all instructions and your alarm still fails to work, contact the nearest Customer Service listed in the “Contact Us” section, which might be able to resolve your problem quickly. Alternatively contact your local supplier.

If the product needs to be returned for repair or replacement, put it in a padded box with a letter describing the fault and postage paid. For battery powered devices, ensure that the alarm has been switched-off.

A proof of purchase must be provided to claim repair under warranty.

About Flammable Gas

Flammable gas is dangerous if the concentration builds up enough to become explosive. This level is called the lower explosive limit (LEL). The HF500 detector will alarm if the gas concentration reaches 10 % of the lower explosive limit (10 %LEL).

Note: Natural Gas and LPG have additives which gives them a distinctive smell. Most people are able to smell Natural Gas or LPG at a lower concentration than the detector alarm setting. This does not mean that the detector is faulty.

- Natural Gas is primarily Methane
- Natural Gas is lighter than air, so any leak will result in a build up of gas at a high level within a room or enclosed area. (This is why the installer will place the detector near the ceiling)
- LPG (Liquefied Petroleum Gas) is a mixture of primarily propane, primarily butane or both.
- The gas is heavier than air, so any leak will result in a build up of gas at a low level. (This is why the installer will place the detector near the floor)

Detector Operation

If **GAS** is detected the **RED ALARM** light will flash and the audible alarm will sound.

If the detector is in **ALARM** and the gas clears, the detector will return to normal operation.

If the detector is in **ALARM**, the audible alarm can be silenced for 5 minutes by pressing the **TEST/HUSH** button (the **RED** light will continue to flash). If gas is still present after 5 minutes, the audible alarm will sound again.

If the detector is in **FAULT (YELLOW** light) it must not be used any more, and should be replaced. (The exception is if the detector signals a Power Fault indicated by an intermittent single chirp. In this case there may be a fault with the power supply and the electrical installation should be checked).

If your detector is in **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 detector
- Turn off the gas supply
- Open doors and windows to increase ventilation
- Do not use a telephone where gas may be present

If the alarm continues, and the cause of the leak cannot be found, vacate the premises and **IMMEDIATELY NOTIFY** the gas supplier or the gas emergency service.

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Specification

Calibration Gas	Methane (Natural Gas Version), Propane (LPG Version)
Calibration Level	10% LEL (Lower Explosive Limit)
Sensor Technology	Catalytic combustion
Accuracy Tolerance	± 2.5% LEL
Dimensions	150mm x 104 mm x 40 mm
Weight	< 400 g
Installation	Surface mounting
Power	110 - 230 Vac 50/60 Hz
Power Consumption	< 6.5 W
Alarm Relay	5 A 250 Vac SPDT (single pole changeover)
Fault Relay	0.25A 250VAC SPST NO (single pole)
Temperature	-10 °C to +55 °C
Humidity	0-95% RH (non-condensing)
Test Facility	Yes
Self Check Function	Yes

