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KH Alert KH107

KH Alert 3-in-1 Plug-in Natural Gas Detector (Model KH107)

User Instruction Manual

1. Introduction

Thank you for choosing the KH Alert 3-in-1 Plug-in Natural Gas Detector, Model KH107. This device is designed to enhance safety in your home or RV by continuously monitoring for combustible gases, while also providing real-time temperature and humidity readings. This manual provides essential information for the proper installation, operation, and maintenance of your detector.



Figure 1: KH Alert 3-in-1 Natural Gas Detector (Model KH107)

This image displays the front and side views of the KH Alert 3-in-1 Natural Gas Detector. The front features a digital display for gas concentration, temperature, and humidity, along with indicator lights for power, fault, and alarm, and a self-test button. The side view shows the plug for electrical outlets and ventilation openings.

2. Safety Information

- **Read Instructions:** Before installation and use, thoroughly read and understand all instructions in this manual.
- **Proper Placement:** Install the detector in appropriate locations as specified in the 'Setup' section to ensure accurate detection.
- **Regular Testing:** Test the detector regularly (at least every 3-4 months) using the self-test function.
- **Alarm Response:** If an alarm sounds, immediately follow emergency procedures for gas leaks. Do not ignore the alarm.

- **Avoid Obstruction:** Ensure the detector's air inlet and outlet are not blocked by furniture, curtains, or other objects.
- **Environmental Factors:** Avoid installing near strong electromagnetic fields, high-temperature sources, or areas with excessive dust or moisture.
- **Not a Substitute:** This detector is a supplementary safety device and should not replace proper ventilation, maintenance of gas appliances, or other safety measures.

3. Product Overview

3.1 Key Features

- **3-in-1 Functionality:** Detects combustible gas, displays ambient temperature, and relative humidity.
- **High Accuracy Sensor:** Utilizes an imported catalytic combustion sensor for responsive and accurate gas detection.
- **Audible and Visual Alarm:** Features an 80dB voice alarm and light indicators when gas concentration exceeds 5% LEL.
- **Large LCD Display:** High-definition color LCD for clear readings day and night.
- **Plug-and-Play Installation:** Simple setup with direct plug-in design.
- **Wide Gas Compatibility:** Detects natural gas, propane, methane, butane, LNG, LPG, and other combustible gases.

3.2 Components and Display



Figure 2: Detector Components and Display Layout

This image illustrates the various components and display elements of the KH Alert 3-in-1 Natural Gas Detector. Labels point to the temperature display, gas concentration display, humidity display, power light, fault light, alarm light, self-test button, AC plug, air inlet, and temperature/humidity sensor.

- **Temperature Display:** Shows ambient temperature in Fahrenheit.
- **Gas Concentration Display:** Shows the percentage of Lower Explosive Limit (%LEL) for combustible gases.
- **Humidity Display:** Shows relative humidity (%RH).
- **Power Light (Green):** Indicates the device is powered on and operating normally.
- **Fault Light (Yellow):** Indicates a device malfunction.
- **Alarm Light (Red):** Flashes when a gas leak is detected.
- **Self-Test Button:** Used to manually test the alarm function.
- **Voice Alarm:** Emits an audible alert during a gas alarm.
- **Air Inlet:** Where ambient air is drawn for sensing.
- **Temperature and Humidity Sensor:** Detects environmental temperature and humidity.

4. Setup

4.1 Installation Location

Proper placement is critical for effective gas detection. Consider the type of gas you are monitoring:

- **Natural Gas (Methane):** Lighter than air. Install the detector within 30 cm (12 inches) below the ceiling and 1-4 meters (3-13 feet) away from the gas source.
- **Liquefied Petroleum Gas (LPG, Propane, Butane):** Heavier than air. Install the detector within 30 cm (12 inches) above the ground and 1-4 meters (3-13 feet) away from the gas source.

Avoid installing in areas with strong air currents (e.g., near windows, doors, exhaust fans), high humidity (e.g., directly above a stove or sink), or where it might be obstructed.

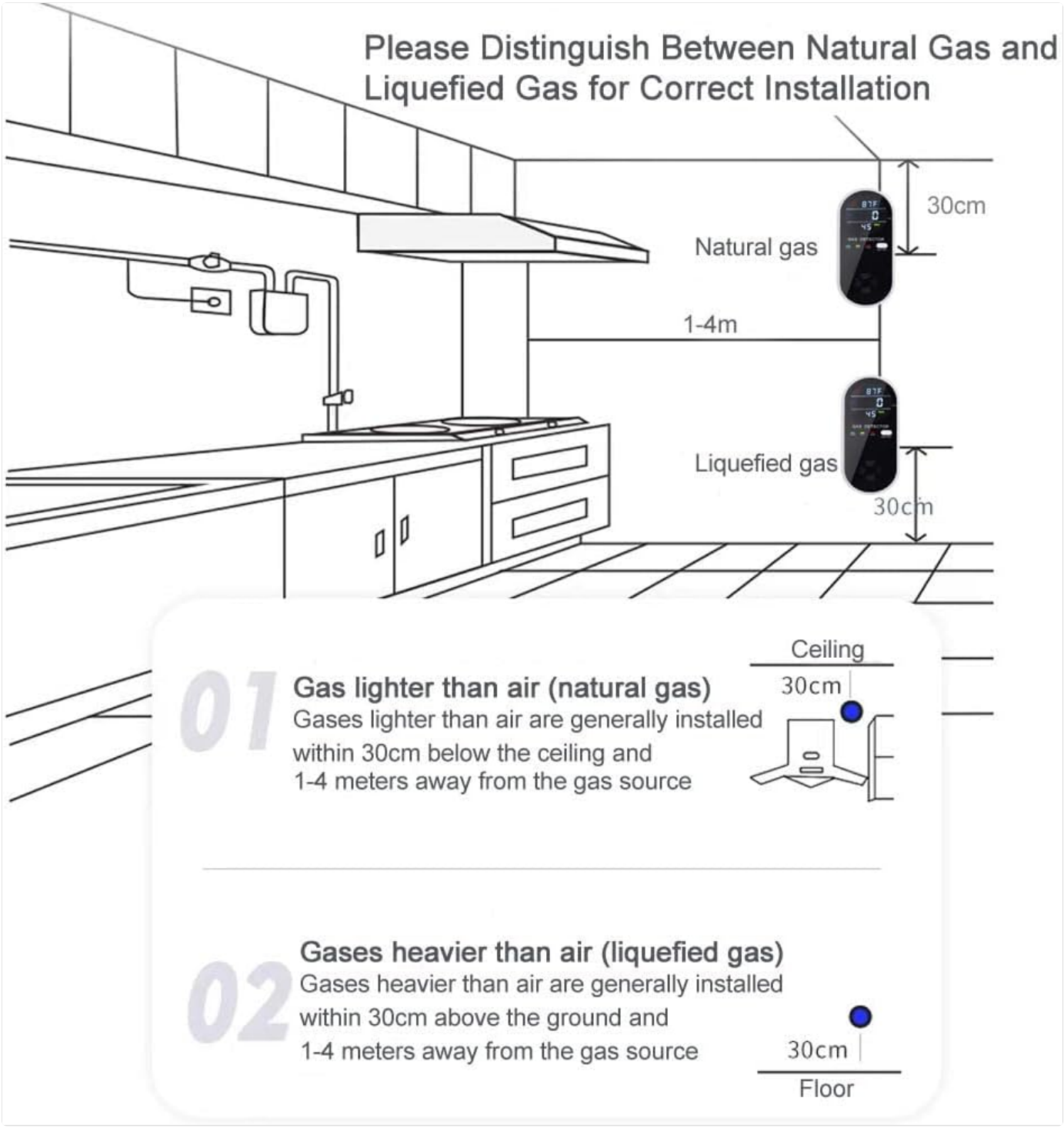


Figure 3: Recommended Installation Positions for Different Gas Types

This diagram visually explains the correct installation height for the gas detector based on the type of gas. For natural gas (lighter than air), it should be mounted near the ceiling. For liquefied gas (heavier than air), it should be mounted near the floor. Both positions recommend a distance of 1-4 meters from the gas source.

4.2 Powering On

Simply plug the detector into a standard AC power outlet in the chosen location. The device will initiate a self-check sequence, and the display will illuminate, showing current temperature and humidity. The green power light will indicate normal operation.



Figure 4: Detector Plugged into an Outlet

This image shows the KH Alert 3-in-1 Natural Gas Detector plugged into a wall outlet in a kitchen environment, demonstrating its plug-and-play installation.

5. Operating Instructions

5.1 Normal Operation

Once powered on, the detector continuously monitors the air. The LCD will display:

- **Temperature:** Current ambient temperature.
- **Humidity:** Current relative humidity.
- **Gas Concentration:** Displays '0' %LEL under normal conditions (no detectable gas).

5.2 Alarm Conditions

If the concentration of combustible gas reaches or exceeds 5% LEL (Lower Explosive Limit), the detector will activate its alarm:

- The **Alarm Light (Red)** will flash.
- A loud **80dB voice alarm** will sound.
- The **Gas Concentration Display** will show the detected gas level.

Upon Alarm Activation:

1. Immediately open windows and doors to ventilate the area.
2. Turn off all gas appliances and sources.
3. Do not operate electrical switches or phones.
4. Evacuate the premises and call your gas provider or emergency services from a safe location.

5.3 Self-Test Function

Press the 'SELF-TEST' button on the front of the detector. The device will perform a brief internal check, and the alarm will sound momentarily to confirm its functionality. This test should be performed regularly.

6. Maintenance

6.1 Periodic Testing

It is recommended to test the detector at least once every 3-4 months. In addition to the self-test button, you can perform a functional test:

1. Use a lighter (unlit, releasing gas) or a small amount of combustible gas near the detector's air inlet for 6-8 seconds.
2. The detector should trigger an alarm immediately.
3. Ventilate the area after the test.



Figure 5: Periodic Testing Procedure

This image demonstrates how to perform a periodic test of the gas detector using an unlit lighter to release gas near the sensor. The text indicates that testing is recommended every 3-4 months and that the detector should trigger an alarm within 6-8 seconds.

6.2 Cleaning

Clean the exterior of the detector periodically with a soft, dry cloth. Do not use harsh chemicals, abrasives, or solvents. Ensure the air inlet and outlet are free from dust and debris.

7. Troubleshooting

Problem	Possible Cause	Solution
Detector does not power on	No power from outlet; device malfunction.	Check the power outlet with another appliance. If outlet is functional, contact support.

Problem	Possible Cause	Solution
Alarm sounds frequently without apparent gas leak	False alarm due to other volatile organic compounds (VOCs) like alcohol, cleaning products, or strong cooking fumes; sensor contamination.	Ventilate the area. Relocate the detector away from sources of VOCs. Clean the detector. If problem persists, contact support.
Fault light is on	Internal malfunction.	Unplug and re-plug the device. If the fault light remains, contact support.
Display is dim or unreadable	Power issue; display malfunction.	Ensure stable power supply. If issue persists, contact support.

8. Specifications

Feature	Specification
Model Number	KH107
Power Source	AC Plug-in
Sensor Type	Catalytic Combustion Sensor
Detected Gases	Natural Gas (Methane), Propane, Butane, LNG, LPG, etc.
Alarm Concentration	≥5% LEL
Alarm Volume	≥80dB
Temperature Range	0°F - 122°F (±2°F)
Humidity Range	0% - 95% RH (±5%)
Product Dimensions	1.9"D x 2.01"W x 4"H
Item Weight	3.2 ounces (0.2 Pounds)
Material	ABS

9. Warranty and Support

9.1 Warranty Information

The KH Alert 3-in-1 Natural Gas Detector (Model KH107) comes with a**2-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For any questions, technical assistance, or warranty inquiries, please contact KH Alert customer support via email. Our team is dedicated to helping you resolve any issues you may encounter.

Email: [Insert Manufacturer's Support Email Here, if available. Otherwise, refer to product packaging or purchase platform for contact details.]

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