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› AOTIQUAL G55 Natural Gas Detector User Manual

AOTIQUAL G55

AOTIQUAL G55 Natural Gas Detector User Manual

Model: G55

1. INTRODUCTION

The AOTIQUAL G55 Natural Gas Detector is a high-precision device designed to detect various combustible gases, including methane, ethane, propane, gas fuel, liquefied petroleum gas (LPG), and liquefied natural gas (LNG). This detector provides reliable protection for your home and kitchen by alerting you to potential gas leaks, thereby reducing the risk of gas explosions and ensuring the safety of your loved ones and property.



Figure 1: The AOTIQUAL G55 Natural Gas Detector provides essential home safety.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation. Failure to follow these instructions may result in property damage, injury, or death.

- **Do Not Block:** Ensure the air inlets and outlets on the device are never obstructed.
- **Ventilation:** In case of an alarm, immediately ventilate the area, turn off gas sources, and contact emergency services.
- **Testing:** When testing with a gas source (e.g., lighter), *do not strike a flame*. Slowly bleed the gas near the air inlet.
- **Placement:** Install the detector in appropriate locations based on the type of gas being detected. Natural gas (methane) is lighter than air, so detectors should be placed higher. Propane and LPG are heavier than air, requiring lower placement.

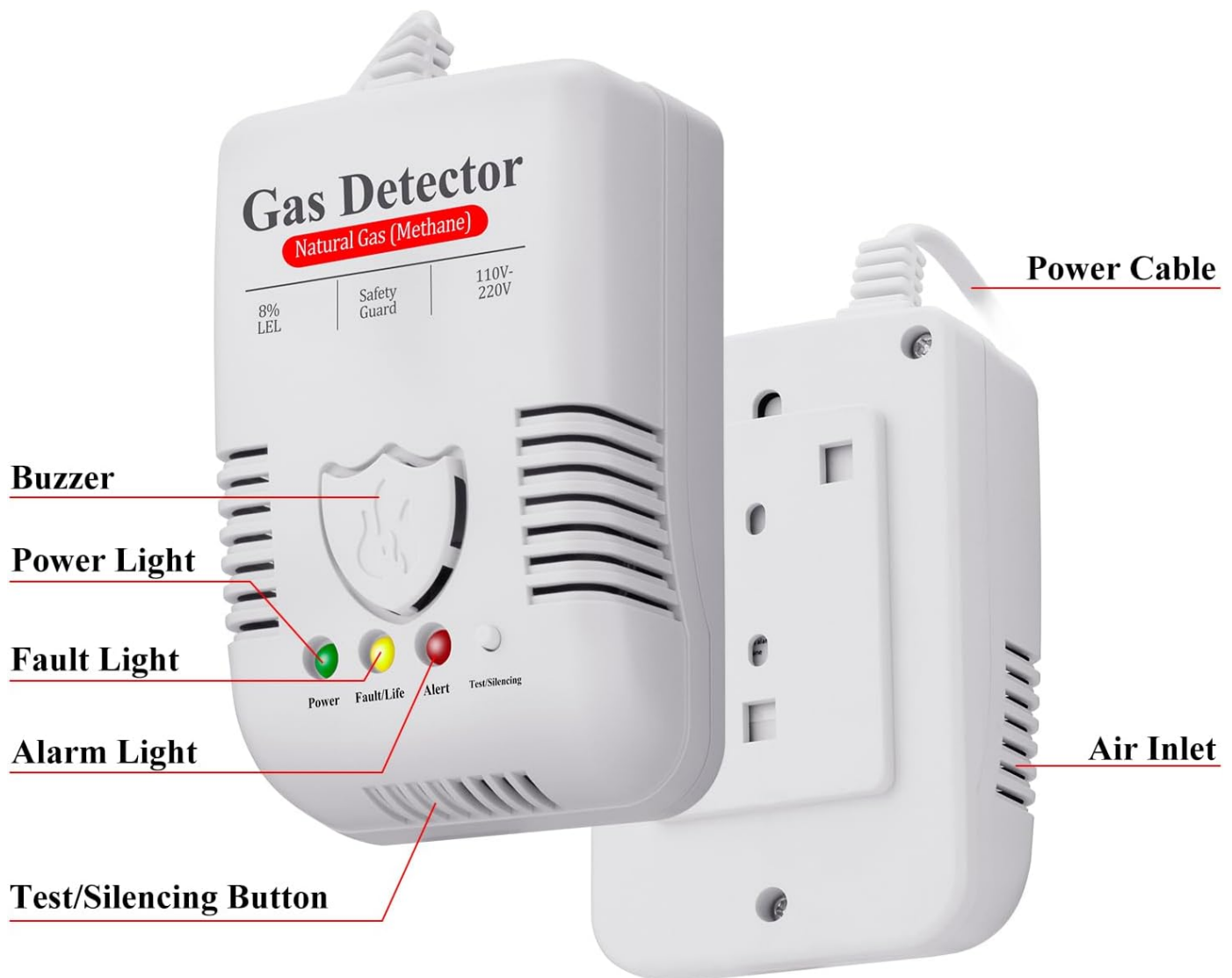
3. PRODUCT OVERVIEW

The AOTIQUAL G55 detector features advanced chip technology for high precision and low power consumption. It includes an 85 dB alarm and clear LED indicators for various statuses.

Key Features:

- Detects Methane, Ethane, Propane, Gas Fuel, LPG, and LNG.
- Advanced Chip Technology for high precision.
- Low Power Consumption for long-lasting performance.
- Loud 85 dB Audible Alarm.
- Plug-and-Play Convenience.
- High Accuracy: $\pm 3\%$ LEL.
- 1-Click Self-check & Mute Function.

Components:



Press "Test/Silence" to pause the alarm sound and to self-test whether the product is working properly.

Figure 2: Front and side view of the AOTIQUAL G55 Gas Detector with labeled components.

- **Power Cable:** For connecting to an electrical outlet.
- **Buzzer:** Emits the audible alarm.
- **Power Light (Green LED):** Indicates the device is powered on and operating normally.
- **Fault/Life Light (Yellow LED):** Indicates a device malfunction or end-of-life.
- **Alert Light (Red LED):** Indicates gas detection and alarm status.
- **Air Inlet:** Where gas enters for detection.
- **Test/Silencing Button:** Used to perform a self-test or silence an active alarm.



Figure 3: The detector is designed to identify over 10 types of combustible gases.

4. SETUP

The AOTIQUAL G55 Natural Gas Detector offers flexible installation options and a simple plug-and-play setup.

Installation Methods:

- **Adhesive Mounting:** Use the provided adhesive pad to attach the mounting bracket to a clean, dry wall surface. Then, slide the detector onto the bracket.
- **Screw Mounting:** Use the provided screws and anchors to secure the mounting bracket to the wall. Then, slide the detector onto the bracket.

Placement Guidelines:

- **Natural Gas (Methane):** As natural gas is lighter than air, install the detector approximately 12 inches (30 cm) below the ceiling, near gas appliances.
- **Propane/LPG:** As propane and LPG are heavier than air, install the detector approximately 12 inches (30 cm) above the floor, near gas appliances.
- Avoid installing near windows, doors, or ventilation openings where air currents might dilute gas concentrations.
- Ensure the device is within reach of a standard 110V-220V AC power outlet.



Figure 4: The detector features a long extension cord for flexible placement.

Initial Power-On:

1. Plug the detector into a suitable power outlet.
2. Upon plugging in, the red and yellow lights will flash alternately for approximately 2-3 minutes. This is the warm-up period during which the sensor calibrates.
3. Once the warm-up is complete, the green 'Power' light will remain steadily lit, indicating the device is ready for operation.



Figure 5: The detector is designed for easy plug-and-play installation in your kitchen.

Setup Demonstration Video:

Your browser does not support the video tag.

Video 1: This video demonstrates the product's display, how to plug it in, and how to perform a test, showing the indicator lights and alarm sound.

5. OPERATING INSTRUCTIONS

Normal Operation:

After the warm-up period, the green 'Power' LED will be continuously lit, indicating the detector is actively monitoring for combustible gases.

Self-Test Function:

To ensure the detector is functioning correctly, perform a self-test regularly:

1. Press the 'Test/Silencing' button on the device.
2. The device will emit a loud 85 dB alarm, and the red 'Alert' LED will flash. This confirms the alarm and indicator lights are working.
3. The test will last for a few seconds, after which the device will return to normal monitoring mode with the green 'Power' light on.



Figure 6: Press the 'Test/Silencing' button to activate the 85 dB audible alarm.

Alarm Silencing:

If the alarm is triggered by a gas leak, you can press the 'Test/Silencing' button to temporarily silence the audible alarm. The red 'Alert' LED will continue to flash until the gas concentration drops below the alarm threshold.



Figure 7: The detector will alarm when gas concentration reaches 8% LEL.

6. ALARM INDICATIONS

The AOTIQUAL G55 uses multi-colored LED indicators to communicate its status:

- **Green LED (Power):** Continuously lit during normal operation.
- **Yellow LED (Fault/Life):** Flashes to indicate a product malfunction or that the device has reached its end-of-life. If this light appears, refer to the troubleshooting section or consider replacing the unit.
- **Red LED (Alert):** Flashes rapidly, accompanied by an 85 dB audible alarm, when a combustible gas leak is detected.

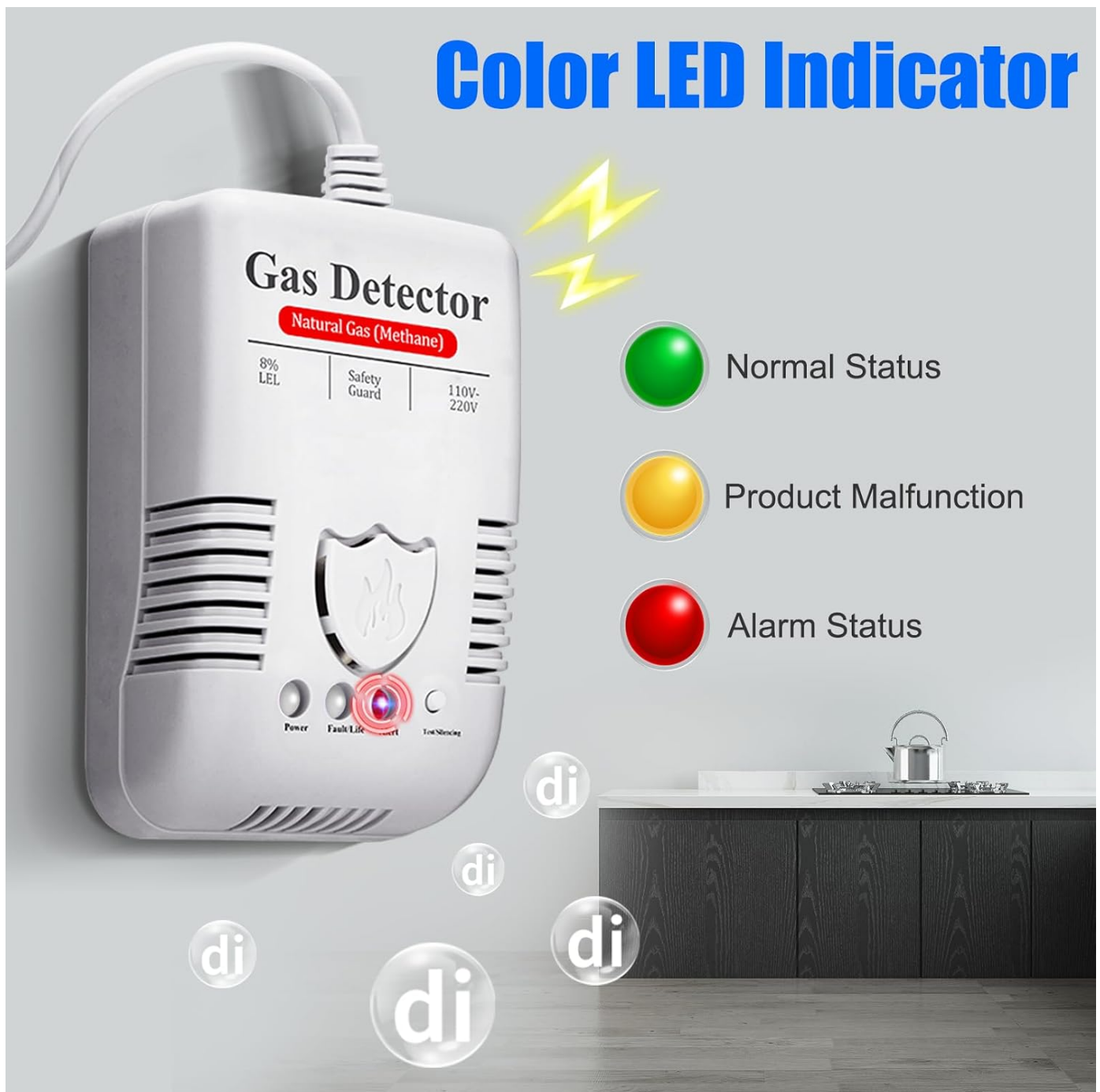


Figure 8: Understanding the LED indicators for different statuses.

7. MAINTENANCE

To ensure optimal performance and longevity of your AOTIQUAL G55 Natural Gas Detector, follow these maintenance guidelines:

- **Regular Cleaning:** Gently wipe the exterior of the detector with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Keep Air Inlets Clear:** Periodically check that the air inlets and outlets are free from dust, debris, or any obstructions.
- **Monthly Testing:** Perform the self-test function at least once a month to verify the alarm and indicator lights are working correctly.
- **Avoid Painting:** Do not paint the detector, as this can interfere with its sensor and proper operation.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No lights or power	No power to the outlet; device unplugged.	Check power outlet; ensure device is securely plugged in.
Yellow 'Fault/Life' LED is lit/flashing	Device malfunction or end-of-life.	Unplug and re-plug the device. If the issue persists, the unit may need replacement.
False alarms	Interference from strong odors (e.g., cleaning products, paint fumes) or sensor overheating.	Ensure proper ventilation. Unplug the device for a few hours to allow it to cool down and reset, then re-plug. Relocate if persistent.
Alarm does not sound during self-test	Device malfunction.	Ensure the device is powered on (green light). If the test button is pressed and no alarm sounds, the unit may be faulty and require replacement.

9. SPECIFICATIONS

Feature	Detail
Brand	AOTIQUAL
Model Number	G55
Power Source	Corded Electric (110V-220V)
Detected Gases	Natural Gas (Methane), Propane, Ethane, LPG, LNG, Gas Fuel, Artificial Gas
Alarm Loudness	85 dB
Alarm Threshold	8% LEL (Lower Explosive Limit)
Product Dimensions	2.8"D x 1.6"W x 4.4"H
Item Weight	0.33 Pounds (5.3 ounces)
Material	Plastic
Color	White
Included Components	Gas detector, User Manual, Installation package (mounting screws, back glue)

10. WARRANTY AND SUPPORT

AOTIQUAL is committed to providing high-quality products. While specific warranty details are not provided in this manual, the manufacturer ensures quality assurance through design, development, and comprehensive inspection before shipment. For any support or inquiries, please refer to the contact information provided with your purchase or visit the official AOTIQUAL store.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question