

PG9936

PG9936 G Wireless Smoke and Heat Detector

USER MANUAL

1. Introduction and Overview

The PG9936 G Wireless Smoke and Heat Detector is a sophisticated safety device designed to provide comprehensive fire detection for both residential and commercial environments. It integrates advanced photoelectric smoke sensing with fixed-temperature heat detection, offering dual protection against fire hazards. This detector utilizes G RF technology for reliable, long-range wireless communication with compatible alarm systems, eliminating the need for signal repeaters in most installations. Equipped with an 85dB built-in buzzer and a high-visibility LED, it provides immediate audible and visual alerts upon detection of smoke or excessive heat.

This manual provides essential information for the proper installation, operation, and maintenance of your PG9936 detector to ensure optimal performance and safety.



Figure 1: PG9936 G Wireless Smoke and Heat Detector (Top View)

This image shows the top-down view of the PG9936 detector, highlighting its circular design, central test button, and the various markings for alarm, fault, and OK status.

2. Safety Information

- **Important:** This smoke and heat detector is designed to detect the presence of smoke and heat. It is not a substitute for proper fire safety practices, including regular fire drills and professional fire safety systems.
- **Regular Testing:** Test the detector weekly to ensure proper operation. Refer to the "Operating Instructions" section for testing procedures.
- **Battery Safety:** Use only specified AAA batteries. Do not mix old and new batteries, or different types of batteries. Dispose of used batteries according to local regulations.
- **Installation Location:** Install the detector in accordance with local building codes and fire safety regulations. Avoid installing in areas with high humidity, excessive dust, or extreme temperatures.
- **Maintenance:** Keep the detector clean and free from dust. Do not paint the detector, as this can interfere with its operation.
- **Tampering:** Do not attempt to open or repair the detector yourself. Refer all servicing to qualified personnel.

3. Package Contents

Verify that all components are present in the package:

- PG9936 G Wireless Smoke and Heat Detector Unit
- Mounting Bracket
- Mounting Screws and Anchors
- Quick Start Guide (if applicable, not included in this manual)

4. Features

The PG9936 detector offers a range of features for reliable fire detection and ease of use:

- **Dual Sensing Technology:** Integrates both photoelectric smoke detection and fixed-temperature heat sensing (57°C / 135°F) for comprehensive fire detection performance.
- **85dB Alarm & LED Alerts:** Built-in piezoelectric sounder and flashing LED indicator provide immediate audible and visual warnings for smoke or heat events.
- **Smart Maintenance Features:** Includes degradation detection, low battery indication, and tamper notification for proactive servicing and enhanced reliability.
- **3-Year Battery Life:** Operates on three AAA batteries with a typical 3-year lifespan, minimizing the need for frequent replacements in long-term deployments.
- **Repeater-Free RF Range:** Leverages G's high-transmission range to eliminate the need for repeaters in most installations, simplifying deployment.
- **Fast Visual Link Quality Check:** Built-in signal strength indicator helps installers quickly verify device placement and optimize system reliability.
- **Flexible Mounting Options:** Includes mounting bracket for straightforward ceiling or wall installation in indoor environments.
- **Wide Panel Compatibility:** Fully compatible with Series Neo, Series Pro, and Qolsys alarm systems.

5. Setup and Installation

Follow these steps for proper installation of your PG9936 detector:

5.1. Choosing an Installation Location

Select a location that complies with local fire safety codes. Generally, smoke detectors should be installed on every level



Figure 3: PG9936 G Wireless Smoke and Heat Detector (Alternate Angled View)

This image shows another perspective of the detector, emphasizing the location of the test/hush button and the LED indicator for visual feedback.

5.4. Enrolling with the Control Panel

The PG9936 detector must be enrolled with a compatible alarm control panel (Series Neo, Series Pro, or Qolsys) to function as part of your security system. Refer to your control panel's user manual for specific enrollment instructions. Typically, this involves:

- Placing the control panel in enrollment mode.
- Activating the detector (e.g., by pressing the test button or inserting batteries) to send an enrollment signal.
- Confirming the detector's successful enrollment on the control panel.

Utilize the built-in signal strength indicator on the detector to verify optimal wireless communication with the control panel after installation. A strong signal ensures reliable performance.

6. Operating Instructions

6.1. Normal Operation

Under normal conditions, the detector's LED indicator will periodically flash green, indicating that the unit is powered and functioning correctly.

6.2. Alarm Indication

When smoke or heat levels reach dangerous thresholds, the detector will activate its alarm:

- The built-in 85dB piezoelectric sounder will emit a loud, continuous alarm.
- The LED indicator will flash red rapidly.
- The detector will transmit an alarm signal to the connected control panel.

6.3. Testing the Detector

It is recommended to test the detector weekly to ensure it is operating correctly.

1. Press and hold the test button located on the front of the detector.
2. The alarm will sound, and the LED will flash red. This indicates that the smoke and heat sensing circuits are functioning.
3. Release the test button. The alarm will cease.

If the detector does not alarm during testing, refer to the "Troubleshooting" section.

6.4. Hush/Silence Feature

In the event of a nuisance alarm (e.g., from cooking fumes), you can temporarily silence the alarm:

1. Press the test/hush button briefly.
2. The alarm will silence for a period (typically several minutes), allowing the air to clear.
3. If the smoke or heat condition persists after the hush period, the alarm will reactivate.

Caution: Do not use the hush feature to ignore a genuine alarm. Always investigate the cause of an alarm.

7. Maintenance

7.1. Battery Replacement

The detector is powered by three AAA batteries with a typical lifespan of 3 years. When the batteries are low, the detector will emit a short chirp periodically and the LED will flash yellow (fault indication). Replace the batteries immediately when this occurs.

1. Twist the detector counter-clockwise to remove it from its mounting bracket.
2. Open the battery compartment.
3. Remove the old batteries and dispose of them properly.
4. Insert three new AAA batteries, observing correct polarity.
5. Close the battery compartment and reattach the detector to the mounting bracket.
6. Test the detector after battery replacement.

7.2. Cleaning the Detector

Dust and debris can accumulate on the detector and affect its performance. Clean the detector at least once a month.

- Gently vacuum the exterior of the detector, especially around the ventilation openings, using a soft brush attachment.
- Wipe the surface with a slightly damp cloth. Do not use cleaning sprays or solvents.
- Never paint the detector.

7.3. Smart Maintenance Features

The PG9936 includes built-in diagnostics to enhance reliability:

- **Degradation Detection:** The detector monitors its sensing chamber for dust accumulation or other factors that could reduce sensitivity. If degradation is detected, it will signal a fault.
- **Low Battery Indication:** As described above, a periodic chirp and yellow LED flash indicate low battery.
- **Tamper Notification:** If the detector is removed from its mounting bracket, it will send a tamper alert to the control panel.

8. Troubleshooting

Refer to the table below for common issues and their solutions:

Problem	Possible Cause	Solution
Detector does not alarm during test.	No power (dead batteries), faulty unit.	Replace batteries. If still no alarm, contact support.
Detector chirps periodically (yellow LED flash).	Low battery.	Replace all three AAA batteries immediately.
False alarms.	Cooking fumes, steam, dust, insects, improper placement.	Ventilate the area. Clean the detector. Relocate if consistently triggered by non-fire sources.
Tamper alert on control panel.	Detector removed from mounting bracket.	Ensure detector is securely twisted onto its mounting bracket.
Communication issues with control panel.	Out of range, interference, enrollment issue.	Verify signal strength. Re-enroll detector. Check for sources of interference.

If the problem persists after attempting these solutions, please contact customer support.

9. Specifications

Attribute	Value
Model Number	PG9936
Detection Type	Photoelectric Smoke and Fixed-Temperature Heat
Heat Alarm Threshold	57°C / 135°F
Audible Alarm	85dB at 3 meters (10 feet)
Power Source	3 x AAA Batteries
Typical Battery Life	3 years
Wireless Technology	G RF Technology
Compatibility	Series Neo, Series Pro, and Qolsys Alarm Systems
Product Dimensions	Approximately 4.9"D x 4.9"W x 2.5"H (12.4 x 12.4 x 6.35 cm)
Operating Environment	Indoor use only

10. Warranty Information

Specific warranty terms and conditions for the PG9936 G Wireless Smoke and Heat Detector are provided by the manufacturer or seller at the time of purchase. Please retain your proof of purchase for warranty claims. For detailed warranty information, refer to the documentation included with your product or contact the point of purchase.

11. Customer Support

If you require further assistance with the installation, operation, or troubleshooting of your PG9936 G Wireless Smoke and Heat Detector, please contact the seller or manufacturer's customer support. Have your product model number (PG9936) and purchase details ready when contacting support.

For general inquiries or to find contact information, please visit the official website of the product's brand or the retailer from whom you purchased the device.

