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› Pildegro PD-70S Smoke Detector with 10-Year Battery and Heat Monitor User Manual

## Pildegro PD-70S

# Pildegro PD-70S Smoke Detector with Heat Monitor User Manual

Model: PD-70S

## 1. INTRODUCTION

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This manual provides essential information for the proper installation, operation, and maintenance of your Pildegro PD-70S Standalone Photoelectric and Temperature-Controlled Combined Smoke Detector. Please read this manual carefully before use and retain it for future reference. This device is designed to provide early warning of fire by detecting smoke and abnormal heat levels.

## 2. SAFETY INFORMATION

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- Always test the smoke detector regularly as described in the operating instructions.
- Do not paint the smoke detector. Paint may clog the openings and interfere with the sensor's ability to detect smoke or heat.
- Do not install the detector in areas with high humidity, excessive dust, or near sources of combustion fumes.
- Ensure the battery is correctly installed and replaced when indicated.
- This device is not intended to replace proper fire safety practices, including regular fire drills and having a fire extinguisher.

## 3. PRODUCT FEATURES

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- **Reliable Smoke Detection:** High-precision photoelectric sensor with an innovative pyramid-convex maze design for accurate and stable smoke detection in 16 directions, covering an area of 50 (0.15 dB/m sensitivity). Includes a self-test button for functionality verification.
- **Smart Heat Detection:** Monitors both smoke (core) and heat (auxiliary). Heat data enhances smoke detection, triggering alarms at lower smoke levels during rapid temperature rises. An alarm sounds if heat persistently exceeds 65°C (149°F) even without smoke.
- **Compact & Intuitive Alarm:** Features a bright LED indicator and an 80dB loud alarm, with frequency increasing as smoke levels rise. Compact size (2.78" x 2.78" x 1.14") and lightweight (3.00 oz).
- **Hassle-Free Installation & Maintenance:** Powered by a replaceable CR123A battery, offering up to 10

years of standby time. Snap-on bracket allows for easy screw or adhesive setup. The device locks only after the battery is installed to prevent errors.

- **Tamper-Proof Design:** A tamper alert triggers if the back cover bracket separates when the alarm is not installed, indicated by a yellow LED flash and 3 beeps every 40 seconds. This ensures proper installation and prevents unauthorized disassembly.

## 4. PACKAGE CONTENTS

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Verify that all items are present in the package:

- Pildegro PD-70S Smoke Detector (x1)
- CR123A Battery (Pre-installed) (x1)
- Screws and Expansion Anchors (x2)
- Double-sided Adhesive Pad (x1)
- User Manual (x1)



Image: Contents of the Pildegro PD-70S package, including the detector, manual, and adhesive pad.

## 5. SETUP AND INSTALLATION

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### 5.1. Installation Location Recommendations

- For indoor ceiling installation only.

- Install this product at potential fire starting points. If multiple fixed spaces are present, install the product at each location.
- If the room length exceeds 12 meters, install an alarm at both ends along the length.
- According to national safety standards, every floor must have an alarm installed, including the kitchen and hallways.
- Maintain a distance of at least 50 cm from flammable furniture.
- Do not install in bathrooms or areas with splashes or steam.
- Do not install near heating or ventilation outlets.
- Do not install in areas with combustion fumes, such as chimneys or new stoves.

## 5.2. Battery Activation

The CR123A battery is pre-installed. To activate the detector, remove the insulation tab from the battery compartment. The device will not function until this tab is removed.



Image: Rear view of the smoke detector with the battery compartment open, revealing the CR123A battery and the insulation tab to be removed for activation.

## 5.3. Installation Method (Screw Installation)

1. Mark the center point of the two holes in the bracket at the selected installation place on the ceiling or wall. Drill expansion pipe to make it flush, bit, and drill wall.
2. As shown in the figure below, align the installation position on an angle, opening the product body clockwise.
3. Install the product body clockwise into the bracket.

Alternatively, use the provided double-sided adhesive pad for installation on smooth, clean surfaces. Ensure the surface is dry and free of dust or grease for optimal adhesion.



Image: Detailed view of the battery installation and a portion of the manual showing screw installation instructions.

## 6. OPERATING INSTRUCTIONS

### 6.1. Test/Mute Button

Press the 'MUTE | TEST' button on the front of the detector to perform a self-test. During a test, the alarm will sound briefly, and the LED indicator will flash. This confirms the unit is functioning correctly.

In case of a non-emergency alarm (e.g., cooking fumes), press the 'MUTE | TEST' button to temporarily silence the alarm for approximately 10 minutes. The detector will automatically reset after this period if the smoke/heat levels return to normal.

### 6.2. LED Indicator and Alarm Signals

- **Normal Operation:** The LED indicator flashes periodically (e.g., every 40-60 seconds) to indicate normal operation.
- **Smoke/Heat Alarm:** The LED indicator flashes rapidly, and the 80dB alarm sounds continuously or with increasing frequency.
- **Low Battery Warning:** The LED indicator flashes, and a short chirp sounds periodically (e.g., every 40 seconds) to indicate the battery needs replacement.
- **Tamper Alert:** If the back cover bracket separates when the alarm is not installed, the yellow LED flashes and 3 beeps sound every 40 seconds.



Image: Side profile of the smoke detector, highlighting the ventilation grille for sensor access.

## 7. MAINTENANCE

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### 7.1. Regular Testing

Test your smoke detector at least once a month by pressing the 'MUTE | TEST' button. Ensure the alarm sounds and the LED flashes. If the alarm does not sound, check the battery or replace the unit.

### 7.2. Cleaning

Clean your smoke detector at least once a year. Gently vacuum the exterior of the detector using a soft brush attachment to remove dust and debris. Do not use cleaning solvents or spray directly onto the unit.

### 7.3. Battery Replacement

The detector uses a CR123A battery with a lifespan of up to 10 years. When the low battery warning sounds (periodic chirp), replace the battery immediately. To replace, detach the detector from its mounting bracket, open the battery compartment, remove the old battery, and insert a new CR123A battery, ensuring correct polarity. Close the compartment and reattach the detector to the bracket. Test the unit after battery replacement.

## 8. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Detector does not alarm during test.	Battery not activated or dead; unit faulty.	Ensure insulation tab is removed. Replace battery. If problem persists, replace unit.
Periodic chirping sound.	Low battery warning.	Replace the CR123A battery immediately.
Yellow LED flashes and 3 beeps every 40 seconds.	Tamper alert (improper installation or disassembly).	Ensure the detector is properly installed and secured to its mounting bracket.
False alarms (e.g., during cooking).	Detector too close to cooking fumes or steam.	Relocate the detector further from sources of non-fire smoke/steam. Use the mute button for temporary silencing.
Heat alarm response time varies.	Response time depends on temperature rise rate (as per technical standards to minimize false alarms).	This is normal operation. For heat testing, place the unit in a sealed container at 65°C for 5-10 minutes.

## 9. SPECIFICATIONS

Feature	Detail
Brand	Pildegro
Model Number	PD-70S
Power Source	Battery Powered (1x CR123A, included)
Battery Life	Up to 10 years
Sensor Type	Photoelectric (Smoke) + Temperature (Heat)
Alarm Volume	80dB
Heat Alarm Threshold	65°C (149°F)
Product Dimensions	1.14"D x 2.78"W x 2.78"H
Item Weight	3.04 ounces
Material	Plastic
Color	White

## 10. WARRANTY AND SUPPORT

Pildegro provides a 12-month service for this product from the date of purchase. For technical support, warranty claims, or any questions regarding your PD-70S smoke detector, please contact Pildegro customer service through the retailer's platform or the contact information provided with your purchase. Please have your model number (PD-70S) and purchase date ready when contacting support.

