

Ecoey A8612B-4

Ecoey A8612B-4 7-Year Battery Smoke and Carbon Monoxide Detector Combo User Manual

Model: A8612B-4

1. INTRODUCTION

The Ecoey A8612B-4 is a battery-operated combination smoke and carbon monoxide (CO) detector designed to provide early warning of smoke and CO presence in your home. This device integrates an electro-optical smoke sensor and an electrochemical CO sensor for comprehensive protection. This manual provides essential information for proper installation, operation, and maintenance of your detector.

2. IMPORTANT SAFETY INFORMATION

Please read and understand all instructions before installing and operating this detector. Failure to follow these instructions may result in property damage, injury, or death.

- **Regular Testing:** Test the detector weekly to ensure proper operation.
- **Battery Replacement:** Replace batteries as indicated by the low battery warning.
- **Placement:** Install detectors in accordance with all local and national building and fire codes.
- **Do Not Paint:** Never paint the detector. Paint can clog the sensing chambers and prevent the unit from operating properly.
- **End of Life:** Replace the unit after 7 years from the date of manufacture or when the End of Life (EOL) indicator appears.

3. PRODUCT OVERVIEW

3.1 Key Features

- **2-in-1 Protection:** Equipped with an electro-optical smoke sensor and an electrochemical CO sensor.
- **Advanced Smoke Detection:** Utilizes two wavelengths of light to detect smoke from both rapid combustion and smoldering fires, minimizing false alarms from cooking moisture.
- **7-Year Battery Life:** Operates on 3 AA replaceable batteries, providing long-term power.
- **Test & Hush Feature:** A single button for testing the alarm and silencing nuisance alarms.

- **Visualized LCD Display:** Shows real-time CO concentration, battery status, and various warning icons.
- **Multi-Color LED Indicators:** Provides clear visual status updates (Green for power, Yellow for fault/low battery, Red for alarm).

3.2 Detector Components



Figure 1: Front view of two Ecoey A8612B-4 combination smoke and carbon monoxide detectors, featuring a circular design with an LCD screen and a central test/hush button.

- **LCD Display:** Shows CO levels, battery status, and warning icons.
- **Test/Hush Button:** Used for testing the alarm and silencing temporary alarms.
- **LED Indicator:** Provides visual status (Green, Yellow, Red).
- **Alarm Horn:** Emits loud alarm sounds.
- **Mounting Plate:** For secure installation on ceilings or walls.



Figure 2: The built-in LCD screen provides real-time information, including carbon monoxide concentration in PPM and battery status, ensuring clear visibility of the device's operational state.

10-YEAR SENSOR LIFE

Replaceable AA battery
with **10 years** life



Figure 3: The detector incorporates both an electrochemical sensor for carbon monoxide detection and a photoelectric reflection sensor for smoke detection, providing comprehensive protection. While the product uses 7-year replaceable batteries, the sensors are designed for a 10-year operational lifespan.

4. SETUP AND INSTALLATION

4.1 Battery Installation

The Ecoey A8612B-4 detector requires 3 AA batteries (included) for operation.

1. Twist the detector counter-clockwise to detach it from the mounting plate (if already installed).
2. Locate the battery compartment on the back of the detector.
3. Insert 3 AA batteries, ensuring correct polarity (+ and -) as indicated inside the compartment.
4. Close the battery compartment cover securely.



Figure 4: Proper insertion of 3 AA batteries into the detector's battery compartment.

4.2 Choosing an Installation Location

For optimal protection, follow these guidelines:

- Install at least one smoke/CO detector on every level of your home, including basements and attics.
- For smoke detection, install detectors inside each bedroom and in the hallway outside each sleeping area.
- For CO detection, install detectors near sleeping areas and on every level of the home.
- Avoid installing near windows, doors, or vents where drafts could interfere with detection.
- Keep detectors away from cooking appliances, humid areas, and dusty environments.
- Mount on a ceiling or high on a wall (at least 4 inches from the ceiling).

4.3 Mounting the Detector

The detector comes with a blind-mounted hanging plate for easy installation.

1. Select a suitable location on a ceiling or wall.
2. Use the mounting plate as a template to mark the screw holes.
3. Drill pilot holes and insert the provided wall anchors if necessary.
4. Secure the mounting plate to the surface using the provided screws.
5. Align the detector with the mounting plate and twist it clockwise until it locks securely into place.



Figure 5: Step-by-step guide for mounting the detector to a ceiling or wall.

5. OPERATING INSTRUCTIONS

5.1 Initial Power-Up

After battery installation, the detector will perform a self-test. The LCD will briefly display all segments, and the LED indicator will flash. The unit will then enter normal monitoring mode.

5.2 Normal Operation

In normal operation, the green LED indicator will flash approximately every 30 seconds. The LCD display will typically be off to conserve battery power, but may show '0 PPM' for CO if activated.

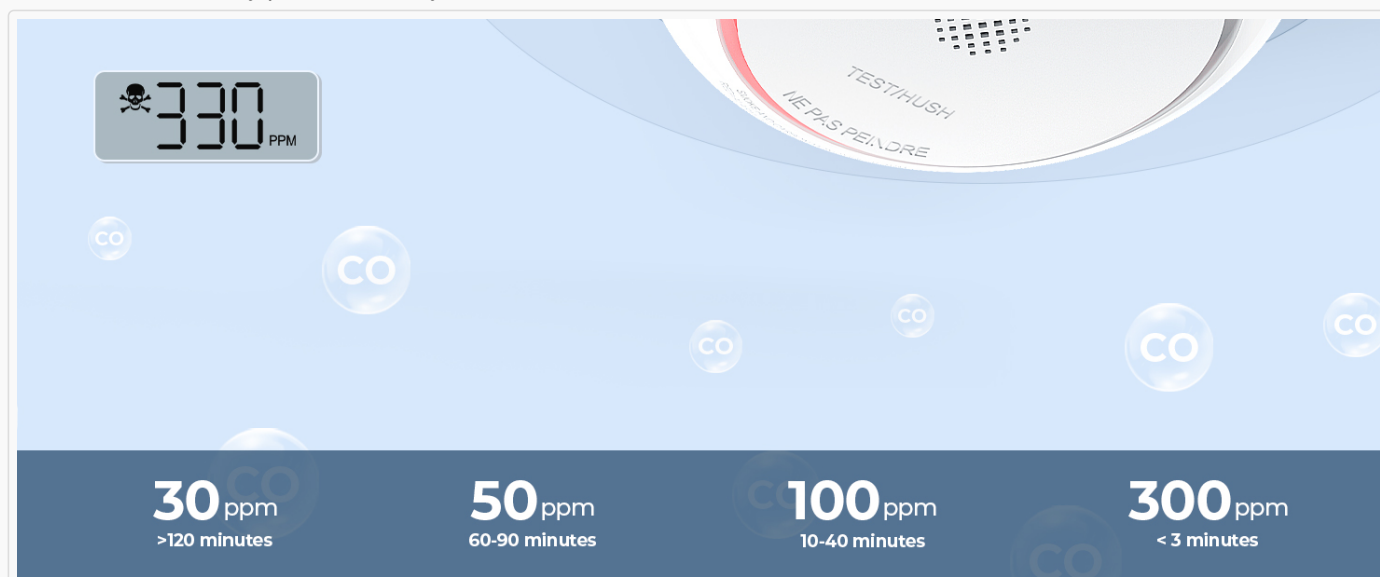


Figure 6: Visual representation of LCD warnings and LED indicators for various operational states.

5.3 Test/Hush Function

The TEST/HUSH button is located in the center of the detector.



Figure 7: A finger pressing the central TEST/HUSH button.

- **To Test:** Press and hold the TEST/HUSH button for approximately 3 seconds. The alarm will sound, and the red LED will flash. This confirms the alarm and electronics are working. Release the button to stop the test.
- **To Silence (Hush):** During a nuisance alarm (e.g., from cooking smoke), press the TEST/HUSH button briefly. This will silence the alarm for approximately 10 minutes. The detector will automatically reset after this period if the smoke/CO concentration has cleared. If the hazard persists, the alarm will reactivate.

5.4 Alarm Conditions and Indicators

The detector provides both audible and visual warnings for different hazards.

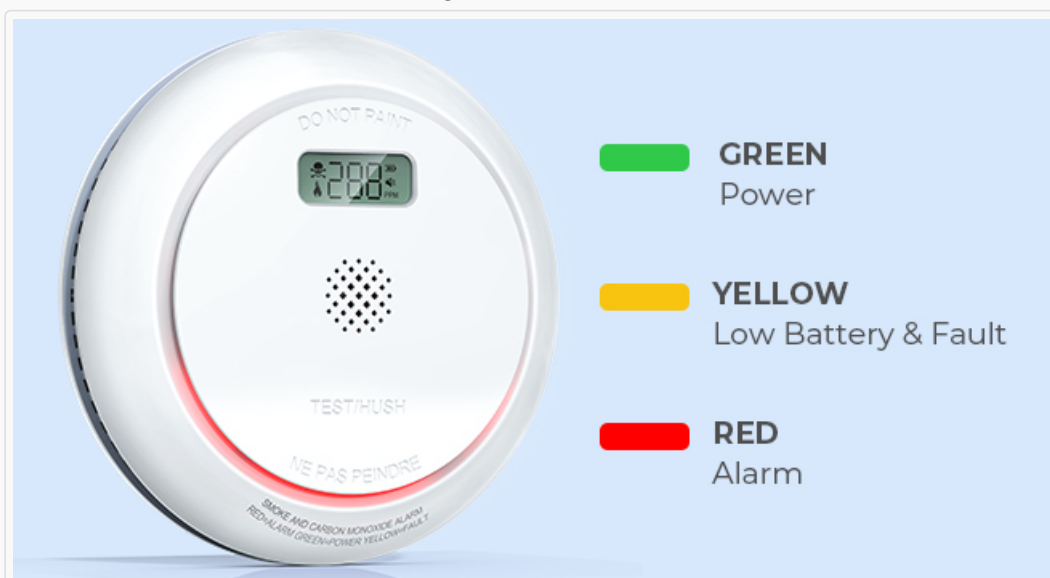


Figure 8: The detector uses a three-color LED indicator system: Green for normal operation (power), Yellow for low battery or fault, and Red for an active alarm (smoke or CO).

- **Smoke Alarm:** The alarm will sound with 3 long beeps, pause, and repeat. The red LED will flash rapidly. The LCD may display a flame symbol.
- **Carbon Monoxide Alarm:** The alarm will sound with 4 quick beeps, pause, and repeat. The red LED will flash rapidly. The LCD will display the detected CO concentration in PPM.
- **Low Battery Warning:** The unit will chirp once every 40 seconds. The yellow LED will flash, and the LCD will display "Lb" with a blinking low battery symbol. Replace batteries immediately.
- **Fault Warning:** The unit will chirp once every 40 seconds. The yellow LED will flash, and the LCD will display "Err". This indicates a malfunction. Refer to troubleshooting.

- **End of Life (EOL) Warning:** The unit will chirp once every 40 seconds. The yellow LED will flash, and the LCD will display "EOL". This indicates the detector has reached the end of its operational lifespan and needs to be replaced.

6. MAINTENANCE

Regular maintenance ensures your detector functions correctly.

- **Weekly Testing:** Press the TEST/HUSH button weekly to verify the alarm sounds.
- **Monthly Cleaning:** Gently vacuum the detector's vents and cover with a soft brush attachment to remove dust and debris. Do not use cleaning sprays or solvents.
- **Battery Replacement:** Replace the 3 AA batteries every 7 years, or immediately when the low battery warning (chirp, yellow LED, "Lb" on LCD) occurs.
- **Detector Replacement:** Replace the entire detector unit 7 years after its manufacture date, or when the End of Life (EOL) warning appears.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Detector chirps every 40 seconds, yellow LED flashes, LCD shows "Lb".	Low battery.	Replace all 3 AA batteries immediately.
Detector chirps every 40 seconds, yellow LED flashes, LCD shows "Err".	Internal fault.	Try resetting the unit by removing batteries for 30 seconds and reinserting. If the fault persists, replace the detector.
Detector chirps every 40 seconds, yellow LED flashes, LCD shows "EOL".	End of operational life.	Replace the entire detector unit.
False alarm (smoke) during cooking or showering.	Steam or cooking fumes.	Press the TEST/HUSH button to silence the alarm temporarily. Relocate the detector if false alarms are frequent due to placement. Ensure proper ventilation.
Detector flashes red every 40 seconds after initial setup.	Alarm memory not cleared from factory testing.	Quickly press the TEST/HUSH button 3 times. Alternatively, the detector will reset its historical memory function after 72 hours.
No alarm during test.	Dead batteries, incorrect battery installation, or unit malfunction.	Check battery installation and replace if necessary. If still no alarm, replace the detector.

8. SPECIFICATIONS

- **Model:** A8612B-4
- **Brand:** Ecoey
- **Power Source:** 3 x AA Alkaline Batteries (included)
- **Battery Life:** Approximately 7 years (replaceable)

- **Sensor Type:** Electro-optical (Smoke), Electrochemical (CO)
- **Alarm Type:** Audible (85dB at 3m), Visual (LED, LCD)
- **Item Weight:** 1.5 pounds
- **Package Dimensions:** 6.14 x 6.1 x 4.09 inches
- **UPC:** 768490613413
- **Operating Temperature:** 40°F (4.4°C) to 100°F (37.8°C)
- **Operating Humidity:** 10% to 95% RH (non-condensing)

9. WARRANTY AND SUPPORT

The Ecoey A8612B-4 detector typically comes with a manufacturer's warranty. While a customer review mentions a three-year warranty, please refer to the official product packaging or Ecoey's website for the most accurate and up-to-date warranty information.

For technical support, troubleshooting assistance, or warranty claims, please contact Ecoey customer service through their official website or the retailer where the product was purchased.

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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

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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