

Ecoey GS508C

Ecoey 10-Year Smoke and Carbon Monoxide Detector User Manual

Model: FJ183-A / GS508C

Brand: Ecoey

1. INTRODUCTION

The Ecoey FJ183-A / GS508C is a state-of-the-art dual-sensor smoke and carbon monoxide (CO) alarm designed to provide continuous protection for your home. Featuring both photoelectric smoke sensing technology and an electrochemical CO sensor, it offers comprehensive detection capabilities for both fast and slow-burning fires, as well as dangerous carbon monoxide gas. This device is equipped with a built-in 10-year lithium battery, eliminating the need for battery replacement throughout its operational lifespan.



Figure 1: Ecoey FJ183-A / GS508C Dual Sensor Alarms (4-pack shown)

Key features include a large test/silence button for easy operation, distinct alarm patterns for smoke and CO, and clear LED indicators for power, fault, and alarm status. Its compact design allows for easy installation on ceilings or walls in various rooms, ensuring the safety of your household.

2-in-1 CO & SMOKE

Less False Positives

High Precision



Figure 2: The Ecoey detector blends seamlessly into home environments, offering 2-in-1 CO and smoke detection with high precision and reduced false positives.

2. IMPORTANT SAFETY INFORMATION

WARNING: PLEASE READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLATION AND OPERATION. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN PROPERTY DAMAGE, INJURY, OR DEATH.

- This device is designed for residential use only.

- Do not paint the alarm. Paint can clog the sensing chambers and prevent the alarm from operating correctly.
- Do not attempt to open or repair the alarm. There are no user-serviceable parts inside.
- Test the alarm weekly to ensure proper operation.
- The built-in battery is not replaceable. When the low battery warning sounds, the unit must be replaced.
- This alarm is not intended to detect natural gas (methane), propane, butane, or other combustible fuels.
- Proper placement is crucial. Refer to the installation section for recommended locations.

3. PACKAGE CONTENTS

Upon opening the package, please verify that all items are present and in good condition:

- Ecoey Smoke & Carbon Monoxide Detector Unit(s)
- Mounting Bracket(s)
- Screws and Wall Plugs
- User Manual

4. INSTALLATION

The Ecoey dual sensor alarm is designed for easy installation on either a ceiling or a wall. It is not hardwired and operates on its internal 10-year battery.

4.1 Recommended Placement

- Install at least one alarm on every level of your home, including basements.
- For optimal protection, install an alarm in every sleeping area and outside each separate sleeping area.
- For CO detection, place the alarm at least 5 feet (1.5 meters) from fuel-burning appliances.
- Avoid placing alarms in kitchens, bathrooms, garages, or near windows, doors, or air vents, as these locations can lead to false alarms or reduced effectiveness.

4.2 Mounting Steps

1. Choose a suitable location on the ceiling or wall, away from obstructions.
2. Use the mounting bracket as a template to mark the positions for drilling.
3. Drill two holes at the marked positions. Insert the wall plugs if installing into drywall or plaster.
4. Secure the mounting bracket to the ceiling or wall using the provided screws.
5. Align the alarm unit with the mounting bracket and twist clockwise to secure it in place. The unit will activate automatically once properly mounted.

The large central button serves both as a test button and a silence button. Press and hold the button to test the alarm's functionality. During an alarm, press the button to temporarily silence the unit for approximately 10 minutes.

Your browser does not support the video tag.

Video 1: Product Display FJ183. This video demonstrates the physical appearance, unboxing, and testing of the Ecoey smoke and carbon monoxide detector, including the alarm sound and LED indicators.

5.3 LED Indicators and Alarm Patterns

The alarm features a multi-color LED ring that indicates its status:

- **Green LED:** Indicates normal operation and power.
- **Yellow LED:** Indicates a fault or low battery condition.
- **Red LED:** Indicates an alarm condition (smoke or CO).

Alarm patterns are distinct for smoke and CO:

- **Smoke Alarm:** 3 beeps followed by a pause, repeating.
- **CO Alarm:** 4 beeps followed by a pause, repeating.



Figure 4: Visual representation of smoke and CO detection, along with the Power, Fault, and Alarm LED indicators.

5.4 CO Alarm Sensitivity Settings

The CO sensor is designed to trigger an alarm based on specific carbon monoxide concentration levels and exposure times:

CO Concentration (PPM)	Alarm Timeframe
30 PPM	No alarm before 120 minutes

CO Concentration (PPM)	Alarm Timeframe
50 PPM	Alarms between 60 and 90 minutes
100 PPM	Alarms between 10 and 40 minutes
300 PPM	Alarm in less than 3 minutes

CO Alarm Sensitivity Setting



30PPM without alarm before 120 minutes

50PPM alarms between 60 and 90 minutes

100PPM alarms between 10 and 40 minutes

300PPM alarm in less than 3 minutes

Figure 5: Carbon Monoxide Alarm Sensitivity Levels

6. MAINTENANCE

6.1 Regular Testing

Test your alarm weekly by pressing the Test/Silence button. The alarm should sound with the appropriate smoke and CO patterns.

6.2 Cleaning Your Alarm

To keep your alarm in good working order, clean it at least once a month. Use a soft brush or a vacuum cleaner with a soft brush attachment to remove dust and debris from the vents around the alarm. Do not use cleaning solvents or spray chemicals directly on the alarm.

6.3 Battery Life and Replacement

This alarm is equipped with a sealed, built-in 10-year lithium battery. The battery is not replaceable. When the battery is nearing the end of its life, the alarm will emit a low battery warning (a chirp and/or yellow LED flash). At this point, the entire unit must be replaced to ensure continued protection.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Alarm chirps periodically (Yellow LED)	Low battery warning or fault.	If the unit is chirping due to low battery, it needs to be replaced. If it's a fault, try cleaning the unit. If the fault persists, replace the unit.
Alarm sounds without apparent smoke/CO (Red LED)	False alarm due to steam, cooking fumes, dust, or high humidity.	Press the Test/Silence button to silence the alarm. Ventilate the area. If false alarms are frequent, review placement.
Alarm does not sound during test	Unit not activated, faulty unit, or end-of-life.	Ensure the unit is properly twisted onto the mounting bracket. If it still doesn't work, the unit may be faulty or at its end-of-life and needs replacement.
Alarm sounds for smoke or CO	Presence of smoke or carbon monoxide.	Immediately move to fresh air. Do not re-enter the premises until the alarm has stopped and the area has been ventilated. Call emergency services if you suspect a fire or CO leak.

8. SPECIFICATIONS

Model Number	GS508C (FJ183-A)
Sensor Type	Photoelectric (Smoke), Electrochemical (CO)
Power Source	Built-in 3V Lithium Battery (10-Year Life)
Alarm Volume	>85 dB at 3 meters
Product Dimensions	1.55"D x 5.28"W x 5.28"H (39.4mm D x 134mm W)
Operating Temperature	Not specified

Operating Humidity	Not specified
Material	Plastic
Color	White
UPC	766258727761

PRODUCT SIZE



Figure 6: Product Size and Dimensions

9. WARRANTY AND SUPPORT

Ecoey products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included with your product or visit the official Ecoey website. If you encounter any issues or have questions regarding your Ecoey Smoke and Carbon Monoxide Detector, please contact Ecoey customer support for assistance.

You can find more information and support resources on the [Ecoey Store on Amazon](#).