

Honeywell 5806W3

Honeywell Ademco 5806W3 Wireless Smoke Detector User Manual

Model: 5806W3

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Honeywell Ademco 5806W3 Wireless Smoke Detector. This device is designed to provide early warning of fire by detecting smoke particles. It communicates wirelessly with compatible security systems, offering enhanced safety for your property. Please read this manual thoroughly before installation and use to ensure proper functioning and to prevent damage to the device or personal injury. Keep this manual for future reference.

2. IMPORTANT SAFETY INFORMATION

WARNING: This smoke detector is designed for residential and commercial use. It is not a substitute for property and liability insurance. Honeywell is not responsible for any fire, smoke, or property damage that occurs while this device is in use.

- Do not paint the smoke detector. Paint can clog the sensing chamber and prevent the detector from operating correctly.
- Do not install in areas with high humidity, extreme temperatures, or excessive dust.
- Test the smoke detector weekly to ensure proper operation.
- Replace batteries immediately when the low battery signal is indicated.
- This device must be installed in accordance with all local and national electrical and building codes.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Honeywell Ademco 5806W3 Wireless Smoke Detector unit
- Mounting bracket
- Mounting screws and anchors

- CR123A Lithium Battery (pre-installed or separate)
- User Manual (this document)



Image: The Honeywell Ademco 5806W3 Wireless Smoke Detector, showing the main unit, mounting bracket, and included battery.

4. SETUP AND INSTALLATION

4.1 Choosing a Location

For optimal protection, install smoke detectors in every sleeping area and on every level of your home, including the basement. Avoid installing in:

- Kitchens, garages, or furnace rooms where cooking fumes or exhaust can cause nuisance alarms.
- Near air vents, fans, or windows that can interfere with smoke reaching the detector.
- Within 20 feet of a cooking appliance.
- In extremely dusty, dirty, or insect-infested areas.

4.2 Battery Installation/Activation

The 5806W3 uses one 3V CR123A Lithium battery. If the battery is not pre-installed or needs replacement:

1. Remove the detector from its mounting bracket by twisting counter-clockwise.
2. Open the battery compartment cover.
3. Insert the CR123A battery, observing the correct polarity (+/-).
4. Close the battery compartment cover.
5. The detector will chirp briefly and the LED will flash to indicate power-up.

4.3 Mounting the Detector

1. Position the mounting bracket on the ceiling or wall at your chosen location.
2. Mark the screw hole locations.
3. Drill pilot holes if necessary and insert wall anchors.
4. Secure the mounting bracket with the provided screws.
5. Align the detector with the mounting bracket and twist clockwise until it locks securely into place.

4.4 Enrolling with the Security System

The 5806W3 is a wireless device and must be enrolled into a compatible Honeywell security system. Refer to your security system's installation manual for specific enrollment procedures. General steps include:

1. Put your security system into programming mode.
2. Select a zone for the smoke detector.
3. Activate the smoke detector's tamper switch (by removing it from the mounting plate) or press the test button to transmit its serial number to the control panel.
4. Confirm the enrollment on the control panel.
5. Exit programming mode.

Note: The 5806W3 typically uses a loop number for smoke detection and a separate loop for low battery/supervision. Consult your system's manual for correct loop programming.

5. OPERATION

5.1 Normal Operation

Under normal conditions, the detector's LED will flash approximately once every 10-12 seconds, indicating proper operation and communication with the control panel.

5.2 Testing the Detector

Test the smoke detector weekly and after any battery replacement or system maintenance.

1. Press and hold the test button located on the detector's cover for at least 3 seconds.
2. The detector should emit a loud, pulsating alarm sound.
3. The LED will flash rapidly.
4. The alarm signal should be transmitted to the control panel.
5. Release the test button. The alarm will cease.

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

5.3 Alarm Conditions

When smoke is detected:

- The detector will emit a loud, continuous temporal 3 pattern alarm (three long beeps followed by a pause).
- The LED will flash rapidly.
- An alarm signal will be sent to the security control panel, which will then activate its siren and transmit a signal to the central monitoring station (if applicable).

IMPORTANT: If an alarm sounds, evacuate all occupants immediately and call the fire department from a safe location.

6. MAINTENANCE

6.1 Battery Replacement

When the battery is low, the detector will chirp approximately once every 48 seconds, and a low battery signal will be sent to the control panel. Replace the battery immediately.

1. Twist the detector counter-clockwise to remove it from the mounting bracket.
2. Open the battery compartment.
3. Remove the old CR123A Lithium battery.
4. Insert a new 3V CR123A Lithium battery, observing correct polarity.
5. Close the battery compartment.
6. Re-attach the detector to the mounting bracket by twisting clockwise.
7. Test the detector after battery replacement (refer to Section 5.2).

Note: Dispose of used batteries according to local regulations.

6.2 Cleaning the Detector

Clean the smoke detector at least once a year to remove dust and debris that could interfere with its operation.

1. Remove the detector from its mounting bracket.
2. Gently vacuum the exterior of the detector, especially around the sensing chamber openings, using a soft brush attachment.
3. Do not use cleaning solvents or spray chemicals directly on the detector.
4. Re-attach the detector to the mounting bracket.
5. Test the detector after cleaning (refer to Section 5.2).

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Detector does not alarm during test.	Dead or low battery; Faulty unit.	Replace battery. If problem persists, contact technical support.
Detector chirps every 48 seconds.	Low battery.	Replace battery immediately.
Nuisance alarms (false alarms).	Improper location (near cooking, high humidity); Dust/debris in sensing chamber.	Relocate detector. Clean detector (refer to Section 6.2).
Detector not communicating with control panel.	Not properly enrolled; Out of range; Interference.	Re-enroll detector. Check signal strength. Relocate detector or control panel.

8. SPECIFICATIONS

- **Model:** 5806W3
- **Power Source:** One 3V CR123A Lithium Battery
- **Sensor Type:** Photoelectric

- **Operating Temperature:** 32°F to 120°F (0°C to 49°C)
- **Operating Humidity:** 0-95% RH, non-condensing
- **Alarm Sound Level:** 85 dBA at 10 feet
- **Dimensions:** Approximately 5.6 x 5.5 x 2.6 inches
- **Weight:** Approximately 9.6 ounces (with battery)
- **Wireless Frequency:** 345 MHz (compatible with Honeywell/Ademco 5800 series)

9. WARRANTY AND SUPPORT

Honeywell 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 Honeywell security products website. Keep your proof of purchase for warranty claims.

For technical support, installation assistance, or service inquiries, please contact your authorized Honeywell security dealer or visit the Honeywell support portal:

- **Online Support:** [Honeywell Support](#)
- **Customer Service:** Refer to your product packaging or the Honeywell website for regional contact numbers.

Note: Do not attempt to repair this device yourself. Refer all servicing to qualified service personnel.