Universal Security Instruments AMIC1510SB

Universal Security Instruments AMIC1510SB Combination 3-in-1 Hardwired Smoke, Fire & CO Alarm Detector User Manual

Model: AMIC1510SB | Brand: Universal Security Instruments

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Universal Security Instruments AMIC1510SB Combination 3-in-1 Hardwired Smoke, Fire & CO Alarm Detector. This device is designed to provide early warning of smoke, fire, and carbon monoxide (CO) presence in residential environments. Please read this manual thoroughly before installation and keep it for future reference.

2. SAFETY INFORMATION

WARNING: This alarm is a life-safety device. It is not a substitute for property, disability, life, or other insurance. Proper installation and regular testing are crucial for its effective operation.

- Always follow local electrical codes and regulations during installation.
- Installation should be performed by a qualified electrician if you are not familiar with electrical wiring.
- Do not paint the alarm. Paint can clog the sensing chambers and prevent the alarm from operating properly.
- Do not install in areas with high humidity, extreme temperatures, or excessive dust.
- Test the alarm weekly as instructed in this manual.
- This alarm contains a sealed 10-year battery backup. Do not attempt to replace the battery.

3. PRODUCT FEATURES

The AMIC1510SB detector combines three critical safety functions in one unit:

- **Smoke Detection:** Utilizes advanced sensing technology to detect smoke from fires.
- **Fire Alarm:** Provides an audible alert in case of fire.
- **Carbon Monoxide (CO) Detection:** Monitors for dangerous levels of carbon monoxide gas.
- **Hardwired with 10-Year Permanent Power Battery Backup:** Ensures continuous operation even during power outages for the life of the alarm.
- **Silence Button:** Allows temporary silencing of nuisance alarms.

- **Test Button:** For easy weekly testing of all alarm functions.

Figure 3.1: Front view of the Universal Security Instruments AMIC1510SB alarm. This image highlights the 'Sensing Plus' multi-criteria detection, the '10 YEAR PERMANENT POWER BATTERY BACK-UP' label, CO and Smoke indicator lights, and the 'Press to Silence' / 'Hold to Test Weekly' button. Three electrical wires (yellow, white, black) are visible on the right side, indicating its hardwired nature.

4. SETUP AND INSTALLATION

Before installation, ensure the power to the circuit where the alarm will be installed is turned OFF at the main fuse or circuit breaker box.

4.1 Mounting Location

- Install at least one alarm on every level of your home, including basements.
- For best protection, install a smoke alarm in every sleeping room and outside each separate sleeping area.
- For CO detection, install near sleeping areas and on every level of the home.
- Avoid installing near windows, doors, or forced-air vents where drafts could interfere with detection.
- Do not install within 6 inches of a corner or within 4 inches of a wall (for ceiling mounting).

4.2 Wiring Instructions

The AMIC1510SB is designed for hardwired installation. It typically connects to a standard 120V AC household electrical circuit. The alarm comes with three wires:

- **Black Wire:** Connect to the hot (live) wire of the AC circuit.
- **White Wire:** Connect to the neutral wire of the AC circuit.
- **Yellow Wire:** Used for interconnecting multiple alarms. Connect to the interconnect wire of other compatible alarms. If not interconnecting, cap this wire with a wire nut.

Secure all wire connections with approved wire nuts. After wiring, attach the alarm to the mounting bracket and restore power to the circuit. The alarm will chirp once and the green POWER LED will illuminate, indicating it is receiving AC power.

5. OPERATING INSTRUCTIONS

5.1 Indicator Lights

Indicator	Color	Status/Meaning
POWER	Green	Solid: Receiving AC power. Flashing: Alarm in standby or test mode.
SMOKE	Red	Flashing rapidly with audible alarm: Smoke detected.
CO	Red	Flashing rapidly with audible alarm: Carbon Monoxide detected.

5.2 Test Button

Press and hold the "HOLD TO TEST WEEKLY" button for a few seconds. The alarm will sound a loud, pulsating horn, and the indicator lights will flash. This confirms the alarm's electronics, horn, and battery backup are functioning correctly. Release the button to stop the test.

5.3 Silence Button

In case of a nuisance alarm (e.g., from cooking smoke), press the "PRESS TO SILENCE" button. This will temporarily silence the alarm for approximately 10 minutes. If the smoke or CO concentration persists, the alarm will reactivate.

6. MAINTENANCE

6.1 Weekly Testing

Test your alarm weekly by pressing and holding the "HOLD TO TEST WEEKLY" button until the alarm sounds. This ensures proper operation.

6.2 Cleaning

Clean your alarm 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 alarm's vents and openings. Do not use cleaning solvents or sprays directly on the alarm.

6.3 End of Life Indication

This alarm has a 10-year operational life. After 10 years from the date of manufacture, the alarm will indicate its end-of-life by chirping periodically. When this occurs, the entire unit must be replaced immediately.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Alarm chirps periodically (e.g., every 30-60 seconds)	End of life, low battery backup, or malfunction.	If 10 years old, replace unit. If newer, ensure proper AC power. If chirping persists, replace unit.
Alarm sounds without apparent smoke/CO	Nuisance alarm (cooking, steam), dust, or malfunction.	Press silence button. Clean alarm. If false alarms persist, relocate or replace.
Alarm does not sound during test	No AC power, faulty unit.	Check circuit breaker. Ensure green POWER LED is on. If not, replace unit.
Alarm goes into repeating self-testing mode	Internal malfunction.	This indicates a fault. The unit must be replaced immediately. Disconnect power if necessary.

8. SPECIFICATIONS

- **Model:** AMIC1510SB

- **Power Source:** 120V AC, 60Hz with 10-Year Sealed Lithium Battery Backup

- **Detection Type:** Multi-Criteria (Smoke, Fire, Carbon Monoxide)

- **Item Weight:** Approximately 10.8 ounces (0.31 kg)

- **Package Dimensions:** Approximately 5.83 x 5.75 x 1.93 inches (14.8 x 14.6 x 4.9 cm)

- **Item Package Quantity:** 1

- **Batteries Included:** No (Integrated sealed battery)

- **Batteries Required:** No (Integrated sealed battery)

- **ASIN:** B098CGP38X

- **UPC:** 042741015103

- **Manufacturer:** Universal Security Instruments

- **Date First Available:** November 21, 2024

9. WARRANTY AND SUPPORT

For specific warranty information and terms, please refer to the documentation included with your product or visit the official Universal Security Instruments website. Keep your proof of purchase for warranty claims.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact Universal Security Instruments customer service directly. Contact information can typically be found on their official website or on the product packaging.