

## First Alert SMI100-AC

# First Alert SMI100-AC Hardwire Interconnect Smoke Alarm

## USER MANUAL

### Introduction

This manual provides essential information for the installation, operation, and maintenance of your First Alert SMI100-AC Hardwire Interconnect Smoke Alarm with Battery Backup. This device is designed to provide early warning of smoke and fire hazards in residential environments. It features Precision Detection advanced sensing technology and the ability to interconnect with compatible alarms for whole-home coverage.

### Important Safety Information

- **WARNING:** Turn off power at the circuit breaker before installing or servicing the alarm. Failure to do so may result in electrical shock or injury.
- **DO NOT PAINT:** Painting the alarm may interfere with its ability to detect smoke.
- Test the smoke alarm weekly to ensure proper operation.
- Never disconnect the alarm to silence it. Use the Test/Silence button.
- Replace the alarm unit at least every 10 years from the date of manufacture.

### Package Contents

Verify that all components are present before beginning installation:

- First Alert SMI100-AC Smoke Alarm Unit
- Mounting Bracket
- Quick Connect Plug with wiring harness
- 9V Alkaline Battery
- Mounting Screws and Anchors

# Recommended Placement

Add peace of mind to every level and every bedroom.

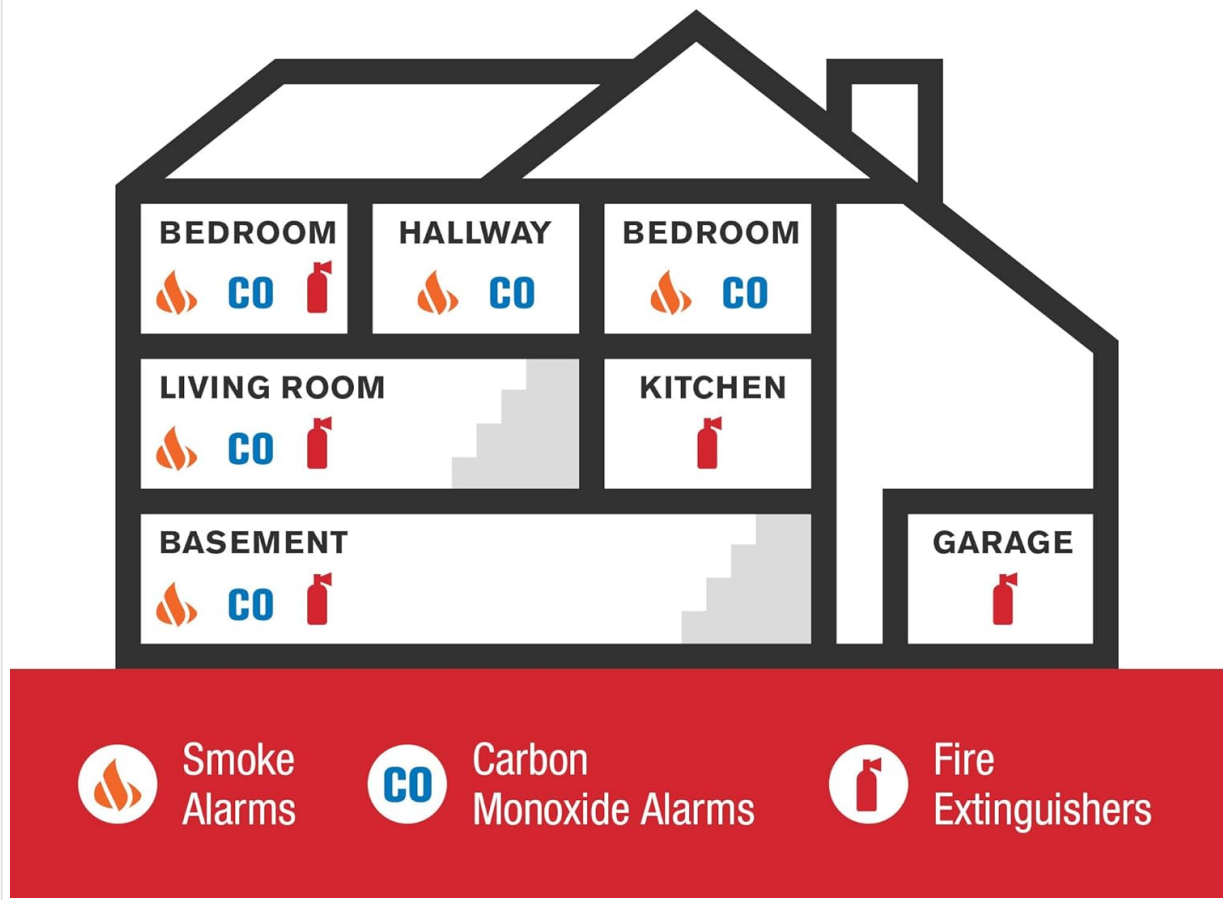


Image: Components of the First Alert SMI100-AC smoke alarm, showing the main unit, mounting ring, wiring harness, battery, and screws.

## Installation

Proper placement and installation are crucial for effective smoke detection.

### Recommended Placement

Install smoke alarms on every level of your home, including basements and in every bedroom. For optimal protection, place alarms in hallways outside sleeping areas and in living rooms. Avoid placing alarms in kitchens, bathrooms, or garages where steam, cooking fumes, or exhaust can cause nuisance alarms.



Image: A diagram showing recommended locations for smoke alarms, carbon monoxide alarms, and fire extinguishers throughout a typical house layout, including bedrooms, hallways, living room, kitchen, basement, and garage.

## Wiring Instructions

1. **Turn off Power:** Before installation, ensure the power to the circuit where the alarm will be installed is turned off at the main fuse box or circuit breaker.
2. **Mounting Bracket:** Secure the mounting bracket to the electrical box using the provided screws. Ensure the bracket is firmly attached.
3. **Connect Wiring:** Connect the Quick Connect Plug wiring harness to your household wiring. Typically, this involves connecting black to black (hot), white to white (neutral), and orange to orange (interconnect, if applicable). Use wire nuts to secure connections.
4. **Install Battery:** Open the battery compartment on the back of the smoke alarm unit. Insert the 9V alkaline battery, ensuring correct polarity (+ to + and - to -). Close the battery compartment.
5. **Attach Alarm Unit:** Plug the Quick Connect Plug into the receptacle on the back of the smoke alarm unit. Align the alarm unit with the mounting bracket and twist clockwise until it locks securely into place.
6. **Restore Power:** Turn the power back on at the circuit breaker. The green power indicator light on the alarm should illuminate, indicating it is receiving AC power.
7. **Test Alarm:** Press and hold the Test/Silence button for a few seconds until the alarm sounds. This confirms the unit is functioning correctly.



Image: A close-up of the First Alert SMI100-AC smoke alarm unit, emphasizing the Quick Connect Plug feature for simplified installation.

## Operation

### Testing the Alarm

Test your smoke alarm weekly to ensure it is operating correctly. Press and hold the Test/Silence button on the alarm cover until the alarm sounds. The alarm will emit a loud, pulsating sound. If the alarm does not sound, refer to the Troubleshooting section.

### Silence Feature

If a nuisance alarm occurs (e.g., from cooking smoke), you can temporarily silence the alarm by pressing the Test/Silence button. The alarm will remain silent for approximately 10 minutes before resetting. If the smoke is still present after the silence period, the alarm will sound again.

### Interconnect Feature

When one interconnected alarm detects smoke, all compatible interconnected alarms in your home will sound. This provides an early warning system throughout your residence.

## Indicator Lights

- **Green LED:** Indicates AC power is present. It will flash periodically during normal operation.
- **Red LED:** Flashes rapidly during an alarm condition. It will also flash during the test sequence.



Image: A detailed view of the First Alert SMI100-AC smoke alarm's front, highlighting the Test/Silence button and the power indicator light.

## Maintenance

### Cleaning Your Smoke Alarm

Clean your smoke alarm regularly to prevent dust and debris from interfering with its operation. Use a soft brush attachment on your vacuum cleaner to gently remove dust from the alarm's vents. Do not use cleaning solvents or spray directly onto the alarm.

### Battery Replacement

The 9V battery provides backup power during outages. Replace the battery annually, or immediately if the alarm emits a low battery chirp. To replace the battery:

1. Turn off AC power to the alarm at the circuit breaker.
2. Twist the alarm counter-clockwise to remove it from the mounting bracket.
3. Open the battery compartment and remove the old battery.
4. Insert a new 9V alkaline battery, observing polarity.
5. Close the battery compartment and reattach the alarm to the mounting bracket by twisting clockwise.
6. Restore AC power and test the alarm.

## End of Life Replacement

Smoke alarms have a limited lifespan. This First Alert SMI100-AC alarm should be replaced 10 years after its manufacture date. The manufacture date is printed on the back of the alarm unit.

## Troubleshooting

Problem	Possible Cause	Solution
Alarm sounds intermittently or for no apparent reason.	Nuisance alarm from cooking, steam, or dust.	Press the Test/Silence button. Clean the alarm. Relocate if consistently triggered by non-fire sources.
Alarm chirps every 30-60 seconds.	Low battery.	Replace the 9V battery immediately.
Alarm does not sound during test.	No AC power, dead battery, or faulty unit.	Check circuit breaker. Ensure battery is installed correctly and is fresh. Replace the unit if issues persist.
Green LED is off.	No AC power.	Check circuit breaker and wiring connections.

## Specifications

- **Model:** SMI100-AC
- **Power Source:** 120V AC, 60Hz, with 9V Alkaline Battery Backup
- **Sensor Type:** Ionization
- **Alarm Type:** Smoke Alarm
- **Interconnect:** Hardwire interconnect with compatible alarms
- **Dimensions:** 5.6"D x 5.6"W x 1"H
- **Weight:** Approximately 9.6 ounces
- **Operating Temperature:** 40°F (4.4°C) to 100°F (37.8°C)
- **Operating Humidity:** 10% to 95% relative humidity (RH) non-condensing

## Warranty and Support

For warranty information and technical support, please refer to the documentation included with your product or visit the official First Alert website. Keep your purchase receipt as proof of purchase for warranty claims.

**Online Support:** [www.firstalert.com](http://www.firstalert.com)

