

Kidde i4618AC

Kidde i4618AC Hardwire Smoke Alarm User Manual

Comprehensive instructions for the Kidde i4618AC Battery Powered Hardwire Smoke Alarm, ensuring proper setup, operation, and maintenance for optimal safety.

PRODUCT OVERVIEW

The Kidde i4618AC is an ionization smoke alarm designed for residential use. It operates on a 120V AC power source and includes a 9V battery backup for continuous protection during power outages. This model features an easy-access slide-load front battery door, simplifying battery replacement and activation.

It is interconnectable with up to 24 compatible devices, including other smoke, carbon monoxide (CO), and heat alarms, allowing for a synchronized alert system throughout your home. The alarm also includes a tamper-resist locking feature to prevent unauthorized removal.

SETUP AND INSTALLATION

Proper installation is crucial for the effective operation of your smoke alarm. Follow these steps carefully:

- Power Disconnection:** Before beginning installation, ensure that the power to the circuit where the alarm will be installed is turned off at the main fuse or circuit breaker box.
- Mounting Base Installation:** The large mounting base simplifies installation and helps cover any imperfections on the wall or ceiling surface. Secure the mounting base using appropriate screws (not included) into a ceiling joist or wall stud, or use suitable anchors if mounting to drywall.
- Wiring Connection:** The alarm comes with a pre-stripped wiring harness and an easy-off cap. Connect the alarm's wiring to your household electrical wiring (120V AC) according to local electrical codes. The tinned strands on the wiring harness are designed to increase conductivity and improve wire nut grip.
- Battery Activation:** The front battery pull tab allows for battery activation without removing the alarm from its mounting bracket. Insert a fresh 9V battery into the front-loading battery door. Ensure correct polarity (+ to + and - to -).
- Alarm Attachment:** Once wiring and battery are in place, attach the smoke alarm unit to the mounting base by aligning the tabs and twisting clockwise until it locks securely.
- Power Restoration & Testing:** Restore power to the circuit. The alarm should chirp once to indicate it has power. Press and hold the Test/Hush button to test the alarm. A loud, pulsating alarm should sound. If no alarm sounds, refer to the Troubleshooting section.



This image displays the Kidde i4618AC smoke alarm. The battery compartment is open, revealing a red 9V battery. The text on the alarm indicates "IMPORTANT: SEE OWNERS MANUAL FOR COMPLETE OPERATING INSTRUCTIONS" and "WARNING: MODELS WITHOUT BATTERY BACKUP". The battery itself is labeled "9V Battery For All Electronic Applications No. 1604P". The image highlights the easy-access front-loading battery door.

OPERATING INSTRUCTIONS

Your Kidde i4618AC smoke alarm is designed for continuous operation and requires minimal user interaction under normal conditions.

- **Normal Operation:** The alarm continuously monitors for smoke. A small red LED indicator light will flash approximately once every 30-40 seconds to confirm that the alarm is receiving power and functioning correctly.
- **Alarm Condition:** In the event of smoke detection, the alarm will emit a loud, pulsating sound (three long beeps followed by a pause, repeated). The red LED will flash rapidly in conjunction with the alarm sound. If interconnected with other compatible alarms, all interconnected units will also sound.
- **Hush Mode:** For nuisance alarms (e.g., from cooking smoke), press the large, centrally located Test/Hush button. This will temporarily silence the alarm for approximately 7-10 minutes. The red LED will flash every 10 seconds during Hush mode. The alarm will automatically reset after the Hush period, or sooner if smoke density increases.
- **Alarm Memory:** In an interconnected system, if one alarm triggers the others, the initiating alarm will flash its red LED every

1.5 seconds for approximately 10 minutes after the alarm condition has cleared. This feature helps identify the source of the alarm.

- **Low Battery Warning:** When the 9V battery backup is low, the alarm will chirp approximately once every 30-40 seconds. This indicates that the battery needs to be replaced immediately.

MAINTENANCE

Regular maintenance ensures the continued reliability of your smoke alarm.

- **Monthly Testing:** Test your smoke alarm monthly by pressing and holding the Test/Hush button until the alarm sounds. This confirms the alarm's electronic circuitry, horn, and battery are working.
- **Battery Replacement:** Replace the 9V battery annually, or immediately when the low battery chirp sounds. Use only recommended 9V batteries. The front-loading battery door makes this process convenient.
- **Cleaning:** Clean your smoke alarm at least once a year. Gently vacuum the alarm's cover and vents with a soft brush attachment to remove dust and debris. A dust cover is included to protect the sensor from contaminants during construction, reducing nuisance alarms. Do not paint the alarm.
- **Alarm Replacement:** Smoke alarms have a limited lifespan. It is recommended to replace your smoke alarms every 10 years from the date of manufacture. Refer to the date code on the back of the alarm.

TROUBLESHOOTING

If your smoke alarm is not functioning as expected, consult the following common issues:

Problem	Possible Cause	Solution
Alarm chirps every 30-40 seconds.	Low 9V battery backup.	Replace the 9V battery immediately.
Alarm sounds frequently without apparent smoke.	Dust or debris in the sensor chamber; high humidity; cooking fumes; steam.	Clean the alarm as described in the Maintenance section. Use Hush mode for temporary silencing during cooking. Ensure proper ventilation.
Alarm does not sound during test.	No power (AC or battery); faulty unit.	Check circuit breaker and ensure battery is correctly installed. If issues persist, replace the unit.
Red LED does not flash.	No AC power.	Check AC power connection and circuit breaker. Ensure the alarm is properly seated on its mounting base.

For persistent issues not covered here, please contact Kidde customer support or consult a qualified electrician.

SPECIFICATIONS

- **Model Number:** i4618AC
- **Power Source:** 120V AC with 9V Battery Backup
- **Sensor Type:** Ionization
- **Product Dimensions:** 4.72 x 3.94 x 3.94 inches
- **Weight:** 3.04 Pounds
- **Operating Temperature:** 40°F to 100°F (4.4°C to 37.8°C)
- **Interconnectivity:** Up to 24 Kidde devices (18 initiating)
- **Manufacturer:** Kidde

WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product packaging or visit the official Kidde website. If you require technical assistance or have questions regarding your Kidde i4618AC smoke alarm, please contact Kidde Customer Support.

Kidde Customer Support:

- **Website:** www.kidde.com
- **Phone:** Refer to the product packaging or website for the most current contact numbers.

