USER'S MANUAL

SMOKE ALARM AC POWERED WITH BATTERY BACKUP

Model SMI100-AC

IMPORTANT! PLEASE READ CAREFULLY AND SAVE

information about your Smoke Alarm's operation. If you are installing this Alarm for use by others, you must leave this manual—or a copy of it—with the end user. Para el manual del usuario en español, por favo visite firstalert.com



 (\mathbf{i})

A DANGER!

ELECTRICAL SHOCK HAZARD. Turn off the power to the area where the Smoke Alarm is installed before removing it from the mounting bracket. Failure to turn off the power first may result in serious electrical shock, injury or death.

A WARNING!

- This unit will not alert hearing impaired residents. It is recommended that you install special units which use devices like flashing strobe lights to alert hearing impaired residents.
- Installation of this unit must conform to the electrical codes in your area; Articles 210 and 300.3 (B) of NFPA 70 (NEC), NFPA 72, NFPA 101; ICC; SBC (SBCCI); UBC (ICBO); NBC (BOCA); OTFDC (CABO), and any other local or building codes that may apply. Wiring and installation must be performed by a licensed electrician. Failure to follow these guideline
- may result in injury or property damage. This unit must be powered by a 24-hour, 120V AC pure sine wave 60 Hz circuit. Be sure the circuit cannot be turned off by a switch, dimmer, or ground fault circuit interrupted Failure to connect this unit to a 24-hour circuit may prevent it from providing constant protection. Unit may be connected to an arc fault circuit interrupter.
- This Smoke Alarm must have AC or battery power to operate. If the AC power fails, battery back-up will allow the Alarm to sound for at least 4 minutes. If AC power fails and the battery is weak, protection should last for up to 7 days. If AC power fails and the battery is
- dead or missing, the Alarm cannot operate.

 Never disconnect the power from an AC powered unit to stop an unwanted Alarm. Doing so will disable the unit and remove your protection. In the case of a true unwanted Alarn open a window or fan the smoke away from the unit. The Alarm will reset automatically when it returns to normal operation.
- Never remove the batteries from a battery operated unit to stop an unwanted Alarm (caused by cooking smoke, etc.). Instead open a window or fan the smoke away from the unit The Alarm will reset automatically

A CAUTION!

- Connect this unit ONLY to other compatible units. See "How To Install This Smoke Alarm" for details. Do not connect it to any other type of Alarm or auxiliary device. Connecting anything else to this unit may damage it or prevent it from operating properly. The hattery compartment resists closing unless a hattery is installed. This warns you the
- unit will not operate under DC power without a battery. . Do not paint over the unit. Paint may clog the openings to the sensing chamber and

01 INTRODUCTION

prevent the unit from operating properly.

Thank you for choosing First Alert® for your Smoke Alarm needs. You have purchased a state-of-theart Smoke Alarm designed to provide you with early warning of a fire. Please take the time to read this manual and make the Smoke Alarm an integral part of your family's safety plan

BASIC SAFETY INFORMATION **IMPORTANT!**

- Dangers, Warnings, and Cautions alert you to important operating instructions or to potentially hazardous situations. Pay special attention to these items.
- This Smoke Alarm is approved for use in single-family residences. It is **NOT** designed for

A CAUTION!

The Smoke Alarm will only indicate the presence of smoke that reaches the sensor. The Smoke Alarm is not designed to sense gas, heat or flames.

A WARNING!

- This Smoke Alarm cannot operate without working batteries. Removing the batteries for any reason, or failing to replace the batteries at the end of their service life, removes your protection
- NEVER ignore any Alarm. See "If Your Smoke Alarm Sounds" for more information on how to respond to an Alarm. Failure to respond can result in injury or death. The Silence Features are for your convenience only and will not correct a problem. See "Using the
- Silence Features" for details. Always check your home for a potential problem after any Alarm. Failure to do so can result in injury or death.
- Test this Smoke Alarm once a week. If the Alarm ever fails to test correctly, have it replaced immediately! If the Alarm is not working properly, it cannot alert you to a problem.

02 ABOUT SMOKE ALARMS

TYPES OF ALARMS

All these Smoke Alarms are designed to provide early warning of fires if located, installed and cared for as described in the user's manual, and if smoke reaches the Alarm. If you are unsure which type of Smoke Alarm to install, refer the National Fire Protection Association (NFPA) Standard 72 (National Fire Alarm and Signaling Code) and NFPA 101 (Life Safety Code). National Fire Protection Association, One Batterymarch Park, Quincy, MA 02269-9101. Local building codes may also require specific units in new construction or in different areas of the home.

Battery (DC) operated Smoke Alarms: Provide protection even when electricity fails, provided the atteries are fresh and correctly installed. Units are easy to install, and do not require professional installation. They do not, however, provide interconnected functionality.

AC powered Smoke Alarms: Can be interconnected so if one unit senses smoke, all units Alarm They do not operate if electricity fails.

AC with battery (DC) back-up: will operate if electricity fails, provided the batteries are fresh and correctly installed. AC and AC/DC units must be installed by a qualified electrician.

Wireless Interconnected Alarms: Offer the same interconnected functionality as with hardwired Alarms, without wires. Units are easy to install and do not require professional installation. The provide protection even when electricity fails, provided the batteries are fresh and correctly installed.

Smoke Alarms for solar or wind energy users and battery backup power systems: AC powered Smoke Alarms should only be operated with true or pure sine wave inverters. Operating this Smoke Alarm with most batterypowered UPS (uninterruptible power supply) products or square wave or quasi sine wave" inverters will damage the Alarm. If you are not sure about your inverter or UPS type, please consult with the manufacturer to verify.

Smoke Alarms for the hearing impaired: Special purpose Smoke Alarms should be installed for the hearing impaired. They include a visual Alarm and an audible Alarm horn, and meet the requirements of the Americans With Disabilities Act. These units can be interconnected so if one unit senses smoke

Smoke Alarms are not to be used with detector guards unless the combination has been evaluated

All First Alert® Smoke Alarms conform to regulatory requirements, including UL217 and are designed to detect particles of combustion. Smoke particles of varying number and size are



hotoelectric technology is generally more sensitive than ionization technology at relationship is generally more sensitive unan initiation techniques detecting large particles, which tend to be produced in greater amounts by smoldering fires, which may smolder for hours before bursting into flame. Sources of these fires may include cigarettes burning in couches or bedding.

For maximum protection, use both types of Smoke Alarms on each level and in every bedroom of your home.

03 INSTALLATION

WHERE TO INSTALL THIS ALARM

The National Fire Protection Association (NFPA), recommends one Smoke Alarm on every floor, in every sleeping area, and in every bedroom. In new construction, the Smoke Alarms must be AC powered and interconnected. See "Agency Placement Recommendations" for details. For additional coverage, it is nended that you install a Smoke Alarm in all rooms, halls, storage areas, finished attics, and basements, where temperatures normally remain between 40° F (4.4° C) and 100° F (37.8° C). Make re no door or other obstruction could keep smoke from reaching the Smoke Ala

IN GENERAL, INSTALL SMOKE ALARMS:

- On every level of your home, including finished attics and basements. Inside every bedroom, especially if people sleep with doors closed.
- In the hall near every sleeping area. If your home has multiple sleeping areas, install a unit in each.

 If a hall is over 40 feet (12 meters) long, install an Alarm at each end.
- At the top of the first-to-second level stairway, and at bottom of basement stairway

Specific requirements for Smoke Alarm installation vary from state to state and from region to region. Check with your local Fire Department for current requirements in your area. It is reco or AC/DC units be interconnected for added protection.

RECOMMENDED PLACEMENTS



Smoke Alarm One on every level and Carbon Monoxide Alarm One on every level and in every bedroom

Fire Extinguishe One on every level, plus kitchen and garage

WHERE NOT TO INSTALL THIS ALARM FOR BEST PERFORMANCE, IT IS RECOMMENDED YOU AVOID INSTALLING SMOKE ALARMS IN THESE AREAS:

Where combustion particles are produced. Combustion particles form when something burns Areas to avoid include poorly ventilated kitchens, garages, and furnace rooms. Keep units at least 20 feet (6 meters) from the sources of combustion particles (stove, furnace, water heater, space heater) if possible. In areas where a 20-foot (6 meter) distance is not possible – in modular, mobile, or smaller homes, for example - it is recommended the Smoke Alarm be placed as far rom these fuel-burning sources as possible. The placement recommendat to keep these Alarms at a reasonable distance from a fuel-burning source, and thus reduce funwanted" Alarms. Unwanted Alarms can occur if a Smoke Alarm is placed directly next to a fuel-burning source. Ventilate these areas as much as possible.

- In air streams near kitchens. Air currents can draw cooking smoke into the sensing chamber of a
- In very damp, humid or steamy areas, or directly near bathrooms with showers. Keep units at least 10 feet (3 meters) away from showers, saunas, dishwashers, etc.

 • Where the temperatures are regularly below 40° F (4.4° C) or above 100° F (37.8° C) including
- unheated buildings, outdoor rooms, porches, or unfinished attics or basem
- In very dusty, dirty, or greasy areas. Do not install a Smoke Alarm directly over the stove or range. Clean a laundry room unit frequently to keep it free of dust or lint. $\bullet \quad \text{Near fresh air vents, ceiling fans, or in very drafty areas. Drafts can blow smoke away from the} \\$
- unit, preventing it from reaching sensing chamber. In insect infested areas. Insects can clog openings to the sensing chamber and cause
- Less than 12 inches (305 mm) away from fluorescent lights. Electrical "noise" can interfere

AVOIDING DEAD AIR SPACES

· In "dead air" spaces.

Dead air" spaces may prevent smoke from reaching the Smoke Alarm. To avoid dead air spaces, ollow installation recommendations below.

On ceilings, install Smoke Alarms as close to the center of the ceiling as possible. If this is not possible, nstall the Smoke Alarm at least 4 inches (102 mm) from the wall or corner. For wall mounting (if allowed by building codes), the top edge of Smoke Alarms should be placed between 4 inches (102 mm) and 12 inches (305 mm) from the wall/ceiling line, below typical

"dead air" spaces. On a neaked, gabled, or cathedral ceiling, install first Smoke Alarm within 3 feet (0.9 meters) of the peak of the ceiling, measured horizontally. Additional Smoke Alarms may be required depending on the length, angle, etc. of the ceiling's slope. Refer to NFPA 72 for details on requirements for sloped or

HOW TO INSTALL THIS ALARM IMPORTANT!

This Smoke Alarm is designed to be mounted on any standard wiring junction box up to a 4-inch (10 cm) size, on either the ceiling or wall (if allowed by local codes). Read "Where to Install This Alarm" and "Where This Alarm Should Not Be Installed" before you begin installation.

Tools you will need: needle-nose pliers or utility knife, standard flathead screwdriver, wire strippers (for interconnected Alarms)

A WARNING!

Make sure the Alarm is not receiving excessively noisy power. Examples of noisy power could be major appliances on the same circuit, power from a generator or solar power, light dimmer on the same circuit or mounted near fluorescent lighting. Excessively noisy power may cause damage to your Alarm.

THE PARTS OF THIS ALARM

The Mounting Bracket: To remove the mounting bracket from the Smoke Alarm base, hold the Smoke Alarm hase firmly and twist the mounting bracket counterclockwise. The mounting bracket installs onto the junction box. It has a variety of screw slots to fit most boxes

The Power Connector: The power connector plugs into a power input block on the Alarm. It supplies the unit with AC power.

- The black wire is "hot."
- The white wire is neutral. The orange wire is used for interconnect.

If you need to remove the power connector,

turn POWER OFF first. Insert a flat connector and the security tab inside the ver input block. Gently pry back the tab and pull the connector free.

THE PARTS OF THIS

- **SMOKE ALARM** A Smoke LED (RED)
- B Power LED (GREEN) c Test/Silence button
- Mounting Bracket 2 Mounting Slots
- 3 Locking Pins (break out of bracket)
- 4 Hot (Black) AC Wire 5 Neutral (White) AC Wire
- 6 Interconnect (Orange) Wire 7 Latch to Oper
- Battery Compartment 8 Swing-Out Battery Compartment
- 9 Quick-Connect

FOLLOW THESE SIMPLE STEPS

interconnect more than one Alarm. If you are interconnecting more than one Alarm, you MUST read ed Alarms" below before you begin insta

ELECTRICAL SHOCK HAZARD. Turn off power to the area where you will install this unit at the circuit breaker or fuse box before beginning installation. Failure to turn off the power before installation may result in serious electrical shock, injury or death.

Improper wiring of the power connector or the wiring leading to the power connector will cause damage to the Alarm and may lead to a non-functioning Alarm. All power connections should be done

. Connect the white wire on the power connector to the neutral wire in the junction box. Connect the black wire on the power connector to the hot wire in the junction box. Tuck the grange wire inside the junction box. It is used for interconnect only.

INTERCONNECTED UNITS ONLY

Strip off about 1/2" (12 mm) of the plastic coating on the orange wire on the

- Connect the white wire on the power connector to the neutral wire (usually white) in Connect the black wire on the power connector to the hot wire (usually black) in
- Connect the orange wire on the power connector to the interconnect wire in the junction box. Reneat for each unit you are interconnecting. Never connect the hot or neutral wires in the
- junction box to the orange interconnect wire. Never cross hot and neutral wires between Alarms.
- 1. Remove the mounting bracket from the base, and attach it to the junction box. 2. Using wire nuts, connect the power connector to the household wiring.
- 3. If there's a battery pull tab, activate the battery back-up by removing the "Pull to Activate Battery
- Back-Up" tab. You do no need to open the battery compartment during installation. If battery is not installed, install battery back-up. Battery back-up cannot work until you install the battery in the correct position (Match "+" to "+" and "-" to "-").
- 4. Plug the power connector into the back of the Alarm. 5. Position the base of the Alarm over the mounting bracket, and turn the Alarm clockwise (right) until
- the unit is in place. If wall mounted, adjust unit so words are leve

STAND-ALONE ALARM ONLY:

- If you are only installing one Alarm, restore power to the junction box
- INTERCONNECTED UNITS ONLY:

If you are interconnecting multiple Alarms, repeat steps 1-6 for each Alarm in the series. When you are finished, restore power to the junction box.

A DANGER! ELECTRICAL SHOCK HAZARD. Do not restore power until all Alarms are completely installed. Restoring power before installation is complete may result in serious electrical shock,

- 7. Turn AC power back on. Under normal operation, the Green power indicator light will
- 8. If the Green power indicator light does not light, ${\bf TURN\ 0FF\ POWER\ TO\ THE\ JUNCTION\ BOX}$ and recheck all connections. If all connections are correct and the Green power indicator still does not light when you restore the power, the unit should be replaced immediately. 9. Single Station Alarms: Test each Alarm. Press and release the Test/Silence button. The unit will
- chirp and then Alarm. nterconnected Alarms: Press and release the Test/Silence button. The unit will chirp and then Alarm. All interconnected Alarms should sound. The other Alarms sounding only tests the nect signal between Alarms. It does not test each Alarm's operation. You must test each Alarm individually to check if the Alarm is functioning properly.

If any unit in the series does not Alarm, TURN OFF POWER and recheck connections. If it does not Alarm when you restore power, replace it immediately.

SPECIAL REQUIREMENTS FOR INTERCONNECTED ALARMS

A DANGER!

- Failure to meet any of the above requirements could damage the units and cause them to
- malfunction, removing your protection.

 AC and AC/DC Alarms can be interconnected. Under AC power, all units will Alarm when one senses smoke or CO. When power is interrupted, only the AC/DC units in the series will continue to send and receive signals. AC powered Alarms will not operate.

Interconnected units can provide earlier warning of fire than stand-alone units, especially if a fire starts in a remote area of the dwelling. If any unit in the series senses smoke, all units will Alarm. To determine which Alarm initiated an Alarm, see table:

During an Alarm	On Initiating Alarm(s): Red LED(s) flashes (flash) rapidly in sync with horn On All Other Alarms: Green LED(s) Normal, Red LED(s) Off	
After an Alarm (Latching)	On Initiating Alarm(s): Red LED(s) On for 2 seconds/ Off for 2 seconds	
	On All Other Alarms: Green LED(s) Normal, Red LED(s) Off	

COMPATIBLE INTERCONNECTED UNITS **IMPORTANT!**

Interconnect units within a single family residence only. Otherwise all households will experience unwanted Alarms when you test any unit in the series. Interconnected units will only work if they are vired to compatible units and all requirements are met. This unit is designed to be compatible with First Alert Smoke and Smoke/CO Alarms Models SMI100-AC, SM100V-AC, SMC0100V-AC, SM300-AC, SM500-AC, 1039102, 7030BSL, SMI110LED-AC, SMIC0110LED-AC, SMIC0110-AC, SMC0110LED-AC, SMIC0110-AC, SMC0110LED-AC, SMIC0110-AC, SMI SMIC0105-AC, SA520, SMI105-AC and BRK Smoke Alarm Models 3120B, 9120, 9120B, SC9120B 7010, 7010B, 7010BSL, 7020B, 7020BSL, SC7010B, SC7010BV; BRK Heat Alarm Model HD6135FB; BRK Auxiliary Devices Models RM4 (Relay Modules).

INTERCONNECTED UNITS MUST MEET ALL OF THE FOLLOWING REQUIREMENTS: . A maximum of 18 compatible units may be interconnected (Maximum of 12 Smoke

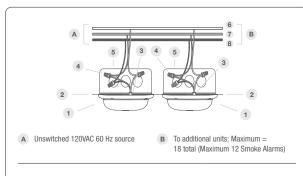
Alarms) per NFPA 72.

1 Alarm

2 Ceiling or Wall

3 Power Connector

- The same fuse or circuit breaker must power all interconnected units.
- The salier lase or clicult therear must power an interconnected units.
 The total length of wire interconnecting the units should be less than 1000 feet (300 meters). This type of wire is commonly available at Hardware and Electrical Supply stores.
- All wiring must conform to all local electrical codes and NFPA 70 (NEC), Refer to NFPA 72, NFPA 101, and/or your local building code for further connection requir



7 Interconnect Wire

8 Hot Wire (Black)

4 Wire Nut

5 Junction Box

6 Neutral Wire (White)

Action	What You Will See & Hear		
Normal Operations	Horn: Silent; Power LED: Steady Green; Smoke LED: Off		
AC Power to Alarm is Off	Horn: Silent; Power LED: Flashes Green every minute; Smoke LED: Off		
When You Test the Alarm	Horn: Short "chirp", then 3 beeps, pause, 3 beeps; Power LED: Green if AC power to Alarm is On, Off if Alarm is operating on battery backup; Smoke LED: Flashes Red in sync with horn		
If Battery Becomes Low	If AC power to Alarm is on OR first 15 minutes after AC power is removed Horn: Chirps 1 time every minute; Power LED: Flashes Green 2 seconds on/2 seconds off Smoke LED: Off		
	After first 15 minutes, if AC power to Alarm is Off		
	Horn: Chirps 1 time every minute; Power LED: Flashes Green 1 time every minute; Smoke LED: Off		
Low Battery Signal is Silenced	Horn: Silent (for up to 8 hours); Power LED: Normal; Smoke LED: Off		
Alarm is Not Operating Properly (Malfunction Signal)	Horn: 3 chirps every minute; Power LED: Flashes Green 3 time every minute; Smoke LED: Off		
Alarm has reached End of Life	Horn: 5 chirps every minute; Power LED: Flashes Green 5 time every minute; Smoke LED: Off		
End of Life Signal is Silenced	Horn: Silent (for up to 2 days, 14 days total); Power LED: Steady Green (AC power) or 5 Green flashes (on battery backup); Smoke LED: Off		
Smoke is Detected	Horn: 3 beeps, pause, 3 beeps; Power LED: Steady Green if AC power to Alarm is On, Flash 1 time every minute if Alarm is operating on battery backup; Smoke LED: Flashes Red in sync with horn		
Smoke is Detected in Another Interconnected Alarm	Horn: 3 beeps, pause, 3 beeps; Power LED: Steady Green if AC power to Alarm is On, Flash 1 time every minute if Alarm is operating on battery backup; Smoke LED: Off		
Smoke Alarm is Silenced (up to 15 Minutes)	Horn: Off; Power LED: Steady Green if AC power to Alarm is On, Flash 1 time every minute if Alarm is operating on battery backup; Smoke LED: Flashes Red 3 times, pause, 3 times		

04 ALARM FEATURES

only engaged for about 15 minutes to conserve power.

- Easy Installation: Add protection in minutes Battery Backup: For protection during power outages. Alarm Indicator: Identifies unit that initiated Alarr

LATCHING FEATURES

Alarm Latch is activated after an Alarm is exposed to Alarm levels of smoke. This feature will only work with AC power. See "Special Requirements for Interconnected Alarms" for signaling This feature helps emergency responders, investigators, or service technicians identify which unit(s) in your home were exposed to Alarm levels of smoke. This can help investigators

pinpoint the source of smoke. Interconnected Alarms. Latching Alarm Indicator shows which Alarm(s) in the series were

exposed to Alarm levels of smoke. The Latching Alarm Indicator stays ON until you clear it. so it can alert you to an Alarm that occurred while you were away from home, even though smoke present in the air has dropped below Alarm levels





Latching Alarn Unit was exposed to Alarm levels of Smoke **Latching Not Activated**

Unit was not exposed to

Alarm levels of Smoke

occurs, the Green LED flashes 2 seconds on, 2 seconds off. This feature is designed to help

Battery Drawer Lock

LOCKING FEATURES

e optional locking features are designed to discourage unauthorized removal of the battery or Alarm. It is not necessary to activate the locks in single-family households where

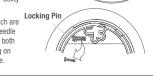
ou identify which Alarm needs to have the battery replaced.

These Smoke/CO Alarms have two separate locking features: one locks the battery ompartment, and the other locks the Smoke/ CO Alarm to the mounting bracket. You can ose to use either feature independently or use them both. Tools you will need: Needle-nose pliers or utility

nauthorized battery or Alarm removal is not a concern

Both locking features use locking pins, which are nose pliers or a utility knife, remove one or both pins from the mounting bracket, depending on how many locking features you want to use

tested the unit.



Bracket Lock

TO LOCK THE BATTERY COMPARTMENT Do not lock the battery compartment until you have installed the battery and

. Push and release the Test/Silence button. The Alarm will "chirp" and then sound: 3 beeps pause, 3 beeps, pause.

IMPORTANT! If the unit does not Alarn during testing, DO NOT lock the battery compartment! Install a new battery and test again. If the Alarm still does not Alarm. replace it immediately. Using needle-nose pliers or a utility

knife, detach one locking pin fron the mounting bracket. . Push the locking pin through the black dot on the label on the back of the Smoke Alarm

TO UNLOCK THE BATTERY COMPARTMENT Once the Alarm is installed, you must disconnect it from the AC power before unlocking

the battery compartment. A DANGER! ELECTRICAL SHOCK HAZARD. Turn off the power to the area where the Alarm is

installed before removing it from the mounting bracket. Failure to turn off the power first may result in serious electrical shock, injury or death. Remove the Alarm from the mounting bracket. If the unit is locked to the bracket, see the section "To

Unlock the Mounting Bracket." Disconnect the power connector by gently prying it away from the back of the Alarm. Insert a flathead screwdriver under the head of the locking pin, and gently pry it out of the battery

compartment lock. (If you plan to relock the battery compartment, save the locking pin.) 4. To relock the battery compartment, close the battery

. Reconnect the power connector to the back of the Alarm, reattach the Smoke Alarm to the mounting bracket, and restore the power. **IMPORTANT!** When replacing the batteries, always test the Alarm before relocking the battery compartment.

door and reinsert locking pin in lock.

TO LOCK THE MOUNTING BRACKET detach one locking pir

from mounting bracket . Insert the locking pin into the lock located opposit from the battery drawer as shown in the diagram.

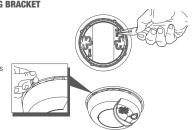
> Alarm to the mounting bracket, the locking pir

head will fit into a notch

Insert a flathead screwdriver

at the same time.

on the bracket.



TO UNLOCK THE MOUNTING BRACKET

A DANGER! ELECTRICAL SHOCK HAZARD. Turn off the power to the area where the Alarm is installed before removing it from the mounting bracket. Failure to turn off the power first may result in serious electrical shock, injury or death

pin and the mounting bracket. 2. Prv the Alarm away from the bracket by turning both the screwdriver and the Alarm counterclockwise (left)

05 TESTING & MAINTENANCE

WEEKLY TESTING . NEVER use an open flame of any kind to test this unit. You might accidentally damage or set fire to

the unit or to your home.

 DO NOT stand close to the Alarm when the horn is sounding. Exposure at close range may be harmful to your hearing. When testing, step away when horn starts sounding. A CAUTION! It is important to test this unit every week to make sure it is working properly. Using the test button

is the recommended way to test this Smoke Alarm. Press and release the Test/Silence button on the cover of the unit. The Alarm will chirp and then sound. If it does not Alarm, make sure the unit is receiving power and test it again. If it still does not Alarm, replace it immediately. During testing, you will hear a loud, repeating horn pattern: 3 beeps, pause, 3 beeps, pause. This pattern will repeat once. When testing a series of interconnected units you must test each unit individually. Make sure all units

Alarm when each one is tested. **REGULAR MAINTENANCE** This unit has been designed to be as maintenance-free as possible, but there are a few simple things

you must do to keep it working properly:

Test it at least once a week.

drywall patching, etc. to prevent contamination

202-625-3333 as serious injury may occur.

TROUBLESHOOTING GUIDE

#1222. These batteries are available at many local retail stores.

nstall batteries correctly with regard to polarity (+ and -).

CHOOSING A REPLACEMENT BATTERY:

A WARNING!

A WARNING!

IMPORTANT!

IF THE ALARM...

Green Power light is off. Unit

will not Alarm when you press the Test/Silence button

Green Power light flashes On

Horn "chirps" 1 time every

minute and Green Power LED flashes on for 2 seconds ON/

2 seconds OFF (Low batter)

Horn "chirps" and Green

1 time every minute

Power LED flashes

Power LED flashes

5 times every minute

3 times every minute

Horn "chirps" and Green

Power LED flashes Green

Alarm goes back into

Alarm after you press the

Smoke Alarm sounds when

no smoke is visible.

FIRE SAFETY TIPS

RESPONDING TO AN ALARM

clears the unit will reset itself automatically.

Don't panic; stay calm. Follow your family escape plan.

Never go back inside a burning building for any reason.
 Contact your Fire Department for ideas on making your home safe.

07 USING THE SILENCE FEATURES

The Silence Feature can temporarily quiet an unwanted Alarm for up to 15 minutes

WHAT TO DO IN CASE OF FIRE

A WARNING!

A WARNING!

Test/Silence button to

silence the Alarm

latch is engaged)

- Clean the Smoke Alarm at least once a month; gently vacuum the outside of the Smoke Alarm using your household vacuum's soft brush attachment. Test the Smoke Alarm. Never use water
- aners or solvents since they may damage the unit. . If the green power LED flashes 2 times every minute (horn is silent) it means that the Alarm needs
- to be cleaned as indicated above. If green LED continues to flash, please call Consumer Support.

 If the Smoke Alarm becomes contaminated by excessive dirt, dust and/or grime, and cannot be
 - cleaned to avoid unwanted Alarms, replace the unit immediately.
- Relocate the unit if it sounds frequent unwanted Alarms. See "Where This Alarm Should Not Be Installed" for details.
- . When the battery back-up becomes weak, the Smoke Alarm will "chirp" about once a minute (the low battery warning). This warning should last 7 days, but you should replace the battery
- immediately to continue your protection Protect or cover the alarm when doing any maintenance to home i.e. sanding floors, painting,

Always use the exact batteries specified by this User's Manual. DO NOT use rechargeable

batteries. Clean the battery contacts and also those of the device prior to battery installation.

· Please dispose of or recycle used batteries properly, following any local regulations. Consult your

in your area. DO NOT DISPOSE OF BATTERIES IN FIRE, BATTERIES MAY EXPLODE OR LEAK.

Keep battery out of reach of children. In the event a battery is swallowed, immediately contact

your poison control center, your physician, or the National Battery Ingestion hotline at

Actual battery service life depends on the Alarm and the environment in which it is installed. All

he batteries specified above are acceptable replacement batteries for this unit. Regardless of the

manufacturer's suggested battery life, you MUST replace the battery immediately once the unit starts

ELECTRICAL SHOCK HAZARD. Turn off the power to the area where the Alarm is installed

BEFORE removing it from the mounting bracket or checking any electrical c

PROBLEM..

Failure to turn off the power first may result in electrical shock, injury or death.

Unit may not be

Alarm is not

Battery is low or missing

Battery is low or missing

MALFUNCTION SIGNAL

Device is not working

properly, and needs

END OF LIFE SIGNAL

Alarm requires cleaning

potentially dangerous

source like cooking smoke.

Follow safety rules and prevent hazardous situations: 1) Use smoking materials properly. Never smoke in bed. 2) Keep matches or lighters away from children; 3) Store flammable materials in proper containers; 4) Keep electrical appliances in good condition and don't overload electrical circuits;

5) Keep stoves, barbecue grills, fireplaces and chimneys grease- and debris-free; 6) Never leave

anything cooking on the stove unattended; 7) Keep portable heaters and open flames, like cand

away from flammable materials; 8) Don't let rubbish accumulate. Keep Alarms clean, and test them

away in inalimate materials, or both ter troubles accommander. Reep variants clean, and test frem weekly. Replace Alarms immediately if they are not working properly. Smoke Alarms that do not work cannot alert you to a fire. Keep at least one working fire extinguisher on every level, and an additional

one in the kitchen. Have fire escape ladders or other reliable means of escape from an upper level in

During an Alarm, you will hear a loud, repeating horn pattern: 3 beeps, pause, 3 beeps, pause.

If the unit Alarms and you are not testing the unit, it is warning you of a potentially dangerous

situation that requires your immediate attention. **NEVER** ignore any Alarm. Ignoring the Alarm may

Never disconnect the AC power to guiet an unwanted Alarm. Disconnecting the power disables the

Alarm so it cannot sense smoke. This will remove your protection. Instead open a window or fan the smoke away from the unit. The Alarm will reset automatically.

ELECTRICAL SHOCK HAZARD. Attempting to disconnect the power connector from the unit when

When an interconnected system of AC powered units is in Alarm, the Alarm indicator light on the unit(s)

If the unit Alarms and you are certain that the source of smoke is not a fire—cooking smoke or an

Get out of the house as quickly as possible. Don't stop to get dressed or collect anything.

open a hot door. Keep doors and windows closed, unless you must escape through them.

over your nose and mouth with a cloth (preferably damp). Take short, shallow breaths

Call the Fire Department as soon as possible from outside. Give your address, then your name.

Meet at your planned meeting place outside your home, and do a head count to make sure

Alarms have various limitations. See "General Limitations of Smoke Alarms" for details

· Feel doors with the back of your hand before opening them. If a door is cool, open it slowly. Don't

extremely dusty furnace, for example-open a nearby window or door and fan the smoke away from

the unit. Use the Silence Feature to silence the Alarm. This will silence the Alarm, and once the smoke

case stairs are blocked; 9) Have an escape plan and practice it regularly

If the unit Alarms get everyone out of the house immediate

the power is on may result in electrical shock, serious injury or death.

that initiated the Alarm will blink rapidly. It will remain OFF on any remaining units.

06 IF THIS SMOKE ALARM SOUNDS

*For a list of acceptable replacement batteries, see "Regular Maintenance

mer Support Team at 1-800-323-9005.

If you have questions that cannot be answered by reading this manual, call the

to be replaced

local waste management authority or recycling organization to find an electronics recycling facility

Check the AC power

power connector is

securely attached to the

Alarm. Make sure a fresh

power the battery backup*.

pattery backup. Check the

battery is installed to

Unit is operating on

AC power supply.

Replace battery'

eplace battery

If unit is under warranty,

Support to process a

warranty replacement

Renlace Alarm immediately

Clean Alarm then press and

continues to flash, contact

"Regular Maintenance"

section. If Green LED

Consumer Support.

details on how to

respond to an Alarm

EVACUATE your home

nmediately and call 91

Silence Alarm using test/

Alarm's cover with a soft

relocate your Alarm. Alarm

kitchen, cooking appliance

may be too close to a

or steamy bathroom.

clean cloth. If frequent

Refer to "If your Smoke

Your Smoke Alarm requires one standard 9V battery. The following batteries are acceptable as ents: Duracell #MN1604, (Ultra) #MX1604; Eveready (Energizer) #522, Eveready (Energizer)

timer is reset.

continuously, it should be replaced immediately.

is Silence Feature can temporarily quiet the low battery warning "chirp" for up to 8 hours. Press the Test/Silence button on the Alarm cover until you hear the acknowledge "chirp".

light once a minute for 8 hours. After 8 hours, the low battery "chirp" will resume. Replace the batteries as soon as possible, to maintain protection in event of a power outage

can silence the End of Life warning "chirp" by pressing the Test/Silence button. The horn will chirp, acknowledging that the End of Life Silence Feature has been activated.

- . If you experience frequent non-emergency Alarms (like those caused by cooking smoke), try elocating the Smoke Alarm.
- If the Alarm sounds when no smoke is visible, try cleaning or relocating the Smoke Alarm. The cover may be dirty.

household current.

If the Smoke Alarm is still not operating properly, and it is still under warranty, please see "How to



On every level of your home, including finished attics and basements

IMPORTANT!



♦ CO Both OR Combination Hardwired Interconnected

09 AGENCY PLACEMENT RECOMMENDATIONS Standards: Underwriters Laboratories Inc. Single and Multiple Station Smoke Alarms 217.

occupancy, approved single and multiple-station Smoke Alarms shall be installed as follows

2. *Outside of each separate dwelling unit sleeping area, within 21 ft (6.4 m) of any door to a sleeping room, with the distance measured along a path of travel

4. On every level of a residential board and care occupancy (small facility), including basements and excluding crawl spaces and unfinished attics

and official position of the National Fire Protection Association, on the referenced subject which is esented only by the standard in its entirety).

Early warning detection is best achieved by the installation of fire detection equipment in all rooms and areas of the household as follows: A Smoke Alarm installed in each separate sleeping area (in the vicinity, but outside bedrooms), and Heat or Smoke Alarms in the living rooms, dining rooms, bedrooms, kitchens, hallways, finished attics, furnace rooms, closets, utility and storage rooms, basements, and attached garages.

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10 SPECIAL COMPLIANCE CONSIDERATIONS

many people—like apartment buildings, condominiums, hotels, motels, dormitories, hospitals, health car complete fire detection systems in warehouses, industrial facilities, commercial buildings, and special-purpose non-residential buildings which require special fire detection and Alarm systems. Depending on the building codes in your area, this Smoke Alarm may be used to provide additional protection in these facilities

building codes. THIS EQUIPMENT SHOULD BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION'S STANDARD 72 (National Fire Protection Association, Batterymarch Park, Quincy MA 02269) Refer to NEPA 101 (Life Safety Code) local building codes or consult your Fire

pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable prote against harmful interference in a residential installation. This equipment generates, uses and can adiate radio frequency energy and, if not installed and used in accordance with the instructions, may

. To silence multiple Alarms in an interconnected series, you must press the Test/Silence button on the unit(s) that initiated the Alarm. **NOTE:** The red LED on the initiating Alarm will flash on three times, repeating. ne red LED will be Off on all other non-initiating Alarms. Once silenced, no audible sound will be

The Silence Feature does not disable the unit—it makes it temporarily less sensitive to smoke. For

your safety, if smoke around the unit is dense enough to suggest a potentially dangerous situation,

he unit will stay in Alarm or may re-Alarm quickly. If you do not know the source of the smoke, do

not assume it is an unwanted Alarm. Not responding to an Alarm can result in property loss, injury,

or death. If the unit will not silence and no heavy smoke is present, or if it stays in silence mode

heard. The unit will exit "silence mode" in approximately 15 minutes.

TO SILENCE SMOKE ALARMS IN AN INTERCONNECTED SERIES

SILENCING THE LOW BATTERY WARNING

Once the low battery warning "chirp" Silence Feature is activated, the unit continues to flash the green $\frac{1}{2}$

SILENCING THE END OF LIFE SIGNAL

IF YOU SUSPECT A PROBLEM Smoke Alarms may not operate properly because of a dead or weak battery, a build-up of dirt, dust or

- If you hear a "chirp" once a minute, replace the battery.
- If the Alarm does not sound during testing, make sure it is receiving AC power from the

Do not try fixing the Alarm yourself — this will void your warranty!

The National Fire Protection Association (NFPA), recommends one Smoke Alarm on every floor, in every sleeping area, and in every bedroom. In new construction, the Smoke Alarms must be AC powered and interconnected. See "Agency Placement Recommendations" for details. For additional coverage, it is recommended that you install a Smoke Alarm in all rooms, halls, storage areas, finished attics, and asements, where temperatures normally remain between 40° F (4.4° C) and 100° F (37.8° C). Make

Inside every bedroom, especially if people sleep with doors closed.

cific requirements for Smoke Alarm installation vary from state to state and from region to region Check with your local Fire Department for current requirements in your area. It is recommended AC or AC/DC units be interconnected for added protection.



Smoke/CO Alarms

NFPA 72 CHAPTER 29 "FOR YOUR INFORMATION, THE NATIONAL FIRE ALARM AND SIGNALING

29.5.1* Required Detection 29.5.1.1* Where required by other governing laws, codes, or standards for a specific type of

3. On every level of a dwelling unit, including basements

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This Smoke Alarm is suitable for use in apartments, condominiums, townhouses, hospitals, day care cilities, health care facilities, boarding houses, group homes and dormitories provided a primary fire detection system already exists to meet fire detection requirements in common areas like lobbies, nallways, or porches. Using this Smoke Alarm in common areas may not provide sufficient warning to all residents or meet local fire protection ordinances/regulations.

In new construction, most building codes require the use of AC or AC/DC powered Smoke Alarms only. In existing construction, AC, AC/DC, or DC powered Smoke Alarms can be used as specified by local

FCC COMPLIANCE This equipment has been tested and found to comply with the limits for a Class B digital device.

cause harmful interference to radio communications.

2. While the unit is in "silence mode", pressing and holding the Test/Silence button for approximately 10 seconds will test the unit. After testing, the unit will re-enter "silence mode" and the 15-minute

This Silence Feature can temporarily quiet the End of Life warning "chirp" for up to 2 days. You

After approximately 2 days, the End of Life "chirp" will resume. The timer shall not be able to be reset after 14 days following the initial end-of-life signal.

grease on the Smoke Alarm cover, or installation in an improper location. Clean the Smoke Alarm as described in "Regular Maintenance," and then test the Smoke Alarm again. If it fails to test properly

when you use the test button, or if the problem persists, replace the Smoke Alarm immediatel

Obtain Warranty Service" in the Limited Warranty

RECOMMENDED LOCATIONS FOR SMOKE ALARMS INSTALLING SMOKE ALARMS IN SINGLE-FAMILY RESIDENCES

sure no door or other obstruction could keep smoke from reaching the Smoke Alarms MORE SPECIFICALLY, INSTALL SMOKE ALARMS:

In the hall near every sleeping area. If your home has multiple sleeping areas, install a unit in each. If a hall is over 40 feet (12 meters) long, install an Alarm at each end. At the top of the first-to-second level stairway, and at bottom of basement stain

Smoke Alarms Wireless Alarms CO CO Alarms Wireless Interconnected Alarm

AC or AC/DC Alarms

CODE, NFPA 72, READS AS FOLLOWS:"

1. *In all sleeping rooms and guest rooms

5. *In the living area(s) of a guest suite 6. In the living area(s) of a residential board and care occupancy (small facility)

Protection Association, Inc., Quincy, MA 02269).

CALIFORNIA STATE FIRE MARSHAL (CSFM)

This Smoke Alarm alone is not a suitable substitute for complete fire detection systems in places housing facilities, nursing homes, day care facilities, or group homes of any kind. It is not a suitable substitute for

epartment for detailed fire protection requirements in buildings not defined as "households"

However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
 Increase the separation between the equipment and receiver.
 Connect the equipment into an outlet on a circuit different from that of the receiver.
 Consult the dealer or an experienced radio or TV technician for help.

▲ WARNING!

Changes or modifications to the product, not expressly approved by First Alert, could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

11

Smoke Alarms However, like a and maintained

Smoke Alarms making sure th escape plannin or others do no members with in the event of sleeping in ord determine whe

Smoke Alarms are missing, dis installed correct breaker, failure etc.). If you are

Smoke Alarm chimneys or wa and set off the especially if be Smoke Alarm

alone unit on the may not give you at least one un a unit on every especially if the AC powered un systems, so if of warning than s

Smoke Alarms standards, it ma recently consun conditioner or o like those with

The Alarm ma since smoke f persons smok while cooking fires where th located Smok

Smoke Alarms that can wear of protection. Smo life insurance.

Smoke Alarms properly. You st purchase date

12

First Alert® wa from defects in or any compon will be made w available, repla exclusive warra

This warranty is not transferable performance. Fi the right to alter

This warranty of negligent use of operating instru-authorized servi hurricanes and

First Alert shall express or imp of merchantabi warranty. Some or consequenti limitations or e may also have

HOW TO OB

Service: If service, contact have the mode

Battery: First a merchantabilit

Disposal: Plea and/or electron

For your records, pleas	e record:			
Date Purchased:				
Where Purchased:				
Date Installed:		Month/Year		
Replace Alarm 10 year	s after instal	llation.		
Please write the date i	te the date in the space provided:		1	Month/Yea

The Alarm wi installation to

The End-of-Li until you get

Printed in Mexic
CONFORMS TO
120V AC ~ 60 H
firstalert.com

GENERAL LIMITATIONS OF SMOKE ALARMS
have played a key role in reducing deaths resulting from home fires worldwide. any warning device, Smoke Alarms can only work if they are properly located, installed,
and if smoke reaches them. They are not foolproof. may not waken all individuals. Practice the escape plan at least twice a year,
everyone is involved – from kids to grandparents. Allow children to master fire and practice before holding a fire drill at night when they are sleeping. If children
eadily waken to the sound of the Smoke Alarm, or if there are infants or family obility limitations, make sure that someone is assigned to assist them in fire drill and
emergency. It is recommended that you hold a fire drill while family members are o determine their response to the sound of the Smoke Alarm while sleeping and to
er they may need assistance in the event of an emergency. cannot work without power. Battery operated units cannot work if the batteries
connected or dead, if the wrong type of batteries are used, or if the batteries are not ly. AC units cannot work if the AC power is cut off for any reason (open fuse or circuit
ong a power line or at a power station, electrical fire that burns the electrical wires, oncerned about the limitations of battery or AC power, install both types of units.
cannot detect fires if the smoke does not reach the Alarms. Smoke from fires in is, on roofs, or on the other side of closed doors may not reach the sensing chamber
Narm. That is why one unit should be installed inside each bedroom or sleeping area— Iroom or sleeping area doors are closed at night—and in the hallway between them.
may not detect fire on another level or area of the home. For example, a stand- e second level may not detect smoke from a basement fire until the fire spreads. This
u enough time to escape safely. That is why recommended minimum protection is tin every sleeping area, and every bedroom on every level of your home. Even with
level, stand-alone units may not provide as much protection as interconnected units, e fire starts in a remote area. Some safety experts recommend installing interconnected
its with battery back-up (see "About Smoke Alarms") or professional fire detection ne unit senses smoke, all units Alarm. Interconnected units may provide earlier
tand-alone units since all units Alarm when one detects smoke. s may not be heard. Though the Alarm horn in this unit meets or exceeds current
ay not be heard if: 1) the unit is located outside a closed or partially closed door, 2) residents ned alcohol or drugs, 3) the Alarm is drowned out by noise from stereo, TV, traffic, air
ther appliances, 4) residents are hearing impaired or sound sleepers. Special purpose units risual and audible Alarms, should be installed for hearing impaired residents.
y not have time to Alarm before the fire itself causes damage, injury, or death, rom some fires may not reach the unit immediately. Examples of this include
ting in bed, children playing with matches, when a person's clothing catches fire tires caused by violent explosions resulting from escaping gas, or incendiary
e fire grows so rapidly that an occupant's egress is blocked even with properly e Alarms.
s are not foolproof. Like any electronic device, Smoke Alarms are made of components
out or fail at any time. You must test the unit weekly to ensure your continued toke Alarms cannot prevent or extinguish fires. They are not a substitute for property or the continuation of the continuation
has have a limited life. The unit should be replaced immediately if it is not operating
should always replace a Smoke Alarm after 10 years from date of purchase. Write the e on the space provided on back of unit.
LIMITED WARRANTY
rrants that for a period of ten years from the date of purchase, this product will be free
n material and workmanship. First Alert, at its option, will repair or replace this product nent of the product found to be defective during the warranty period. Replacement
with a new or remanufactured product or component. If the product is no longer accement may be made with a similar product of equal or greater value. This is your
rranty. y is valid for the original retail purchaser from the date of initial retail purchase and is
ole. Keep the original sales receipt. Proof of purchase is required to obtain warranty First Alert dealers, service centers, or retail stores selling First Alert products do not have
er, modify or any way change the terms and conditions of this warranty. does not cover normal wear of parts or damage resulting from any of the following:
or misuse of the product, use on improper voltage or current, use contrary to the tructions, disassembly, repair or alteration by anyone other than First Alert or an
rvice center. Further, the warranty does not cover Acts of God, such as fire, flood, d tornadoes or any batteries that are included with this unit.
Il not be liable for any incidental or consequential damages caused by the breach of any plied warranty. Except to the extent prohibited by applicable law, any implied warranty
oility or fitness for a particular purpose is limited in duration to the duration of the above the states, provinces or jurisdictions do not allow the exclusion or limitation of incidental
tial damages or limitations on how long an implied warranty lasts, so the above exclusion may not apply to you. This warranty gives you specific legal rights, and you
e other rights that vary from state to state or province to province. STAIN WARRANTY SERVICE
vice is required, do not return the product to your retailer. In order to obtain warranty
act the Consumer Support Team at 1-800-323-9005. To assist us in serving you, please lel number and date of purchase available when calling.
Alert makes no warranty, express or implied, written or oral, including that of ity or fitness for any particular purpose with respect to battery.
ase follow local guidelines regarding the disposal or recycling of batteries nics.
records, please record:
chased:
alled:/Month/Year
Alarm 10 years after installation. rite the date in the space provided:/ Month/Year
ill also provide an audible End-of-Life Signal approximately 10 years after o remind you to replace the unit.
ife Signal can be silenced for up to 2 days. Do not unplug or deactivate the Alarm replacement.
rico M08-179722 01/23
O UL STD 217 Hz, 0.05A
n
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