Smoke Alarm

GS525A User Manual

Thank you for purchasing our smoke alarm. Please take a few minutes to read the user's manual thoroughly and save the document for future reference and to pass on to any subsequent owner.

Teach children how to respond to the alarm, and they should never play with the unit . This alarm was designed for residential environment. It is not designed for us in a recreational vehicle(RV) or boat .

The National Fire Protection Association (NFPA) and the manufacturer recommend replacing this alarm ten years from the date code on back of alarm.



Diagram 1

Helps Reduce Cooking Nuisance Alarms

UL 217 8th Ed.

Product Specifications

•POWER:built-in DC3V(CR-2/3AZ) Lithium battery (battery not replaceable)

•OPERATION CURRENT: <10uA (standby), <80mA (alarm)

•ALARM VOLUME: >85 dB (A) at 10'(3m).

•ALARM SENSITIVITY:1.59-2.80%/ft.

•SILENCE Periodapprox. 8 minutes.

•SMOKE ALARM SOUND PATTERN:Temporal 3 BI 0.5s - pause 0.5s – BI 0.5s – pause 0.5s – BI 0.5s – pause 1.5s, with the red LED flash, repeat this alarm pattern.

•COMPLY WITH:UL217-8th &CAN/ ULC-S531

Description

This unit is a photoelectric smoke alarm. Meets the testing requirements of UL217-8th .The photoelectric technology, it is more sensitive in detecting slow smoldering fires which generate light smoke, little heat and may smolder for hours before bursting into flames. This smoke alarm does not contain any radioactive material. Smoke alarms should be installed in every room (except the bathroom and kitchen), finished attics and basements, making sure the people in the home will be able to hear and respond to the alarm sound. For minimum protection, you should install an alarm on every level of the home particularly outside sleeping rooms. Each alarm should be placed in the middle of the ceiling of each room to be protected. Typical single storey dwelling installation recommendations: Install a smoke alarm on the ceiling or wall inside each bedroom and in the hallway outside each separate sleeping area. If a bedroom area hallway is more than 30 feet long, install a smoke alarm at each end. If there is a basement: install a smoke alarm on the basement ceiling at the bottom of the stairwell. Typical multi-storey dwelling installation recommendations: Install a minimum of one smoke alarm on each occupiable level of the home. Install a smoke alarm on the ceiling or wall inside each bedroom and in the hallway outside each separate sleeping area. If a bedroom area hallway is more than 30 feet long, install a smoke alarm at each end install a smoke alarm at the top of a first – to- second floor stairwell.

Important Safety Information:

1.The test button accurately tests smoke alarm functions. Do not use any other test method. Test smoke alarm weekly to ensure proper operation.

2.If you're sure it isn't a really alarm, open windows or fan the air around smoke alarm to test and silence it.

3.User to install this product in compliance with all local and national electrical installation and building codes.

4.This smoke alarm is designed to be used inside a single family home only. In multifamily buildings, each individual living unit should have its own smoke alarms. Do not install in non-residential buildings as this smoke alarm is not a substitute for a complete alarm system.

5.Install a smoke alarm in every room and on every level of the home. Smoke may not reach the smoke alarm for many reasons. For example, if a fire starts in a remote part of the home, on another level, in a chimney, wall, roof, or on the other side of a closed door, smoke may not reach the smoke alarm in time to alert household members. A smoke alarm will not promptly detect a fire except in the area or room in which it is installed.

6.Smoke alarm may not alert every household member every time. The alarm horn is loud in order to alert individuals to a potential danger. However, there may be some circumstances where a household member may not hear the alarm (i.e. outdoor or indoor noise, sound sleepers, drug or alcohol usage, the hard of hearing, etc.). If you suspect that this smoke alarm may not alert a household member, install and maintain specialty smoke alarms. Household member must hear the alarm's warning sound and quickly respond to it to reduce the risk of injury, or death that may result from fire, if a household member is hard of hearing, install special smoke alarms with lights or vibrating devices to alert occupants.

7.Smoke alarms can only sound their alarms when they detect smoke or detect combustion particles in the air. They do not sense heat, flame, or gas. This smoke alarm is designed to give audible warning of a developing fire. However, many fires are fast - burning, explosive, or intentional, and others are caused by carelessness or safety hazards. In such circumstances, Smoke may not reach the alarm QUICKLY ENOUGH to ensure safe escape. Therefore the installation of smoke alarms is not a substitute for practicing fire safety in the home.

8.Smoke alarms have limitations. This smoke alarm is not foolproof and is not warranted to protect lives or property from fire. Smoke alarms are not a substitute for insurance. Homeowners and renters should have adequate insure to protect their lives and property. In addition, it is possible for the smoke alarm to fail at any time. For this reason, you must test the smoke alarm weekly and replace them every 10 years.

Locations to avoid

•In the garage. Products of combustion are present when you start your automobile.

•Less than4" (10cm) from the peak of an "A" frame type ceiling.

•In an area where the temperature may fall below 40ºF or rise above 100ºF, such as garages and unfinished attics.

•In dusty areas. Dust particles may cause nuisance alarm or failure to alarm. In very humid areas (greater than 85% R.H.). Moisture or steam can cause nuisance alarms.

•In insect-infested areas.

•Smoke alarms should not be installed within 3 ft (.9m) of the following: the door to a kitchen, the door to a bathroom containing a tub or shower, forced air supply ducts used for heating or cooling, ceiling or whole house ventilating fans, or other high air flow areas.

•Kitchens. Normal cooking may cause nuisance alarms. If a kitchen alarm is desired, it should have an alarm silence feature or be a photoelectric type.

•Near fluorescent lights. Electronic "noise" may cause nuisance alarms.

•Smoke alarms are not to be used with detector guards

•Unless the combination (alarm and guard) has been evaluated and found suitable for that purpose.

Operation:

Testing

Test the unit weekly to ensure proper operation by pressing the test button. The alarm will sound if the electronic circuitry, horn, and battery are working properly. If no alarm sounds, the battery may be depleted or another problem, refer to "Trouble shooting" section for a solution.

CAUTION:DO NOTuse an open flame to test your alarm, you could damage the alarm or ignite combustible materials and start a structure fire.

CAUTION: Due to the loudness (85 decibels) of the alarm,

Always stand an arms-length away from the unit when testing. Test the alarm weekly to ensure proper operation. Erratic or low sound coming from your alarm may indicate a defective alarm. Refer to "Trouble shooting" section for a solution.

NOTE: WEEKLY TESTING IS REQUIRED LED indicators

This smoke alarm is equipped with red LED indicators.

Standby Condition: The red LED will flash every 48 seconds to indicate that the smoke alarm is operating properly.

Alarm Condition: When the alarm senses products of combustion and goes into alarm, the red LED will flash rapidly (one flash per second).The rapid flashing LED and pulsating alarm will continue until the air is cleared or the test button is released.

Silence Condition: The red LED will flash every 8 seconds as long as the alarm is in Hush mode.

Low battery trouble indication: An intermittent "chirp" accompanied by a red LED flash every 48 seconds indicates a low battery, you may press the test button to silence the trouble indication for 10 hours, but it will reset automatically after 10 hours. During this condition the unit will continue to operate normally and detect smoke and sound an alarm. This action only temporarily silences the chirp.

NOTE: As the battery in this unit is not replaceable, a low battery signal is an indication of end of life. Therefore the alarm MUST be replaced as soon as possible!

Fault indication: This chirp will occur between the flashes of the red LED indicator light.

Battery discharge Condition: The red LED will always light.

NOTE: When the unit chirps once every 48 seconds, pressing the test button temporarily silences this warning tone for 10 hours, Refer to "Trouble shooting" section for solutions, if the fault signal reactivates, you MUST replace the unit with a new alarm at once or contact you retailer during warranty.

SMOKE SENSING CHAMBER OPERATION:This alarm will "chirp" if any of the components in the smoke sensing chamber fail. This chirp will occur between the flashes of the red LED indicator light. (If the chirp occurs at the same time as the red LED flash, indicating a low battery information).

Alarm silence

When the alarm sounds check for a fire first, After verifying that it is not a fire the alarm can be silenced by pushing the test button. This will silence the alarm for approximately 8 minutes. The red LED will flash once every 8 seconds indicating the smoke alarm is in the silence mode. Smoke alarms are designed to minimize nuisance alarms, but combustion particles from cooking may set off the alarm if the alarm is located close to the cooking area. To minimize the occurrence of false alarms, smoke alarms must be installed a minimum of 10 feet(3 meters) from the nearest cooking appliance. If you accidentally let some smoke into the alarm causing an alarm, you can open the doors and windows. Use a fan to clear the smoke. The alarm will silence (test button) is extremely useful in a kitchen area or other areas prone to nuisance alarms. The silence feature is to be used only when a known alarm condition, such as smoke from cooking activates the alarm. The smoke alarm is desensitized by push the alarm silence (silence mode) on the smoke alarm cover, the alarm will silence to indicate that the alarm is in a temporarily desensitized condition. The smoke alarm will automatically reset after approximately 8 minutes, if after this period, particles of combustion are still present, the alarm will sound again. The alarm silencer (silence mode) can be repeatedly used until the air has been cleared of the condition causing the alarm.

NOTE:Dense smoke will override the alarm silencer and sound a continuous alarm.

CAUTION: Before using the alarm silence (silence), identify the source of the smoke and be certain a safe condition exists.

DANGER: If the alarm sounds, and it is not being tested, it means the unit is sensing smoke, THE SOUND OF THE ALARM REQUIRES YOUR IMMEDIATE ATTENTION AND ACTION.

Low Battery status:

An intermittent "chirp" accompanied by a flashing red LED once every 48 seconds indicates that the battery has reached a low voltage discharge state. As this is a non-replaceable battery, you need to replace smoke alarm with a new alarm within 7 days, to avoid interruption of protection. The audible chirp can be temporarily silenced to avoid night time sleeping, by pressing the test button. This action temporarily silences this warning tone for 10 hours, the chirp will again prompt you to replace the alarm after 10 hours.

Maintenance and Cleaning

In addition to weekly testing, the alarm requires periodic cleaning to remove dust, dirt, and debris. Clean the alarm at least once a year to remove dust, dirt, or debris. Use a vacuum cleaner with a soft brush, vacuum all sides and covers of

smoke alarm. This alarm has a low battery monitor which will cause the alarm to "chirp" approximately every 48 seconds and the red LED flash once at the same time for a minimum of thirty days when the battery gets low. If there is a defective battery or other failures, you can refer to "Trouble shooting" for solution, if there are still failures during warranty, you can return to your retailer.

WARNING: The battery is sealed and is not replaceable. Please replace with new alarm if the low battery chirp occurs.

IMPORTANT: Do not attempt to remove the cover to clean inside. This will void the warranty.

WHAT TO DO WHEN THE ALARM SOUNDS

1. Alert small children in the home

As well as anyone else that might have difficulty leaving the area without help.

2. Leave immediately by your escape plan. Every second counts, so don't waste time getting dressed or picking up valuables.

3. While In leaving, don't open any inside door without first feeling its surface. If hot, or if you see smoke seeping through cracks, don't open that door! Instead, use your alternate exit. If the inside of the door is cool, place your shoulder against it, open it slightly and be ready to slam it shut if heat and smoke rush in.

4. Stay close to the floor if the air is smoky. Breathe shallowly through a cloth, wet if possible.

5. Once outside, go to your selected meeting place and make sure everyone is there.

6. Call the fire department from your neighbor's home -not from yours!

7. Don't return to your home until the fire officials say that it is all right to do so. There are situations where a smoke alarm may not be effective to protect against fire as stated in the NFPA Standard 72.

8. For instance:

a) Smoking in bed

b) Leaving children home alone

c) Cleaning with flammable liquids, such as gasoline

Note: These guidelines will assist you in the event of a fire, however, to reduce the chance that fires will start, practice fire safety rules and prevent hazardous situations.

Repair:

Caution: Do not attempt to repair the alarm. This will void your warranty. If the alarm is not operating properly, and is still under warranty, return it to the original place of purchase. Pack it in a well-padded carton, and ship to the original place of purchase. If the alarm is no longer under warranty, have a licensed electrician replace it immediately with a comparable alarm.

Trouble shooting:

Trouble condition Action	
Smoke alarm does not sound when tested.	1. Activate alarm before installation. 2. Clean smoke alarm. Please refer to the "maintenance and cleaning" section. 3. If problems persist and the unit is still under warranty, you can return to your retailer. 4. if the unit is out of warranty， please replace another new alarm.
An intermittent "chirp" accompanied by a red LED flash every 48 seconds.	The battery is depleted, please replace the smoke alarm.
Smoke alarm chirp occurs every 48 seconds only （alarm goes into fault mode）.	Clean smoke alarm. Please refer to the "maintenance and cleaning" section. Replace smoke alarm if the problem persists
Smoke alarm sounds unwanted alarms intermittently or when residents are cooking, taking showers, etc.	1. Press test button to silence alarm. 2. Clean smoke alarm. Please refer to the "maintenance and cleaning" section. 3. Move smoke alarm to new location and press test button.

The alarm sounds different from it is used to. It starts and stops.	1. Clean smoke alarm. Please refer to the “maintenance and cleaning” section. 2. if the problem persists during warranty, you can return to your retailer. 3. if the unit is out of warranty， please replace another new alarm.

DEVELOP AND PRACTICE A PLAN OF ESCAPE

• Install and maintain fire extinguishers on every level of the home and in the kitchen, basement and garage. Know how to use a fire extinguisher prior to an emergency.
• Make a floor plan indicating all doors and windows and at least two (2) escape routes from each room. Second story windows may need a rope or chain ladder.
• Have a family meeting and discuss your escape plan, showing everyone what to do in case of fire.
• Determine a place outside your home where you all can meet if a fire occurs.
• Familiarize everyone with the sound of the smoke alarm and train them to leave your home when they hear it.
• Practice a fire drill at least every six months, including fire drills at night. Ensure that small children hear the alarm and wake when it sounds. They must wake up in order to execute the escape plan. Practice allows all occupants to test your plan before an emergency. You may not be able to reach your children. It is important they know what to do.
• Current studies have shown smoke alarms may not awaken all sleeping individuals, and that it is the responsibility of individuals in the household that are capable of assisting others to provide assistance to those who may not be awakened by the alarm sound, or to those who may be incapable of safely evacuating the area unassisted.

RECOMMENDED LOCATIONS FOR ALARMS

This equipment should be installed in accordance with the National Fire Protection Association’s 72 (National Fire Protection Association, Batterymarch Park, Quincy, MA 02269).
• Locate the first alarm in the immediate area of the bedrooms. Try to monitor the exit path as the bedrooms are usually farthest from the exit. If more than one sleeping area exists, locate additional alarms in each sleeping area.
• Locate additional alarms to monitor any stairway as stairways act like chimneys for smoke and heat.
• For mobile home installation, select locations carefully to avoid thermal barriers that may form at the ceiling. For more details, see MOBILE HOME INSTALLATION below.
• When mounting an alarm on the ceiling, locate it at a minimum of 4" (10cm) from the side wall (Refer to Diagram 2).
• When mounting the alarm on the wall, use an inside wall with the top edge of the alarm at a minimum of 4" (10cm) and a maximum of 12" (30.5cm) below the ceiling (Refer to Diagram2).
• Put smoke alarms at both ends of a bedroom hallway or large room if the hallway or room is more than 30 ft (9.1 m) long.
• Install Smoke Alarms on sloped, peaked or cathedral ceilings at or within 3 ft (0.9m) of the highest point (measured horizontally). NFPA 72 states: “Smoke alarms in rooms with ceiling slopes greater than 1 ft in 8 ft (.3m in 2.4m) horizontally shall be located on the high side of the room.” NFPA 72 states: “A row of alarms shall be spaced and located within 3 ft (0.9m) of the peak of the ceiling measured horizontally” (Refer to Diagram 3).
For your information, the National Fire Protection Association’s Standard 72 reads: Where required by other governing laws, codes, or standards for a specific type of occupancy, approved single and multiple-station smoke alarms shall be installed as follows:
1. In all sleeping rooms and guest rooms
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
3. On every level of a dwelling unit, including base-ments
4. On every level of a residential board and care occupancy (small facility), including basements and excluding crawl spaces and unfinished attics

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)

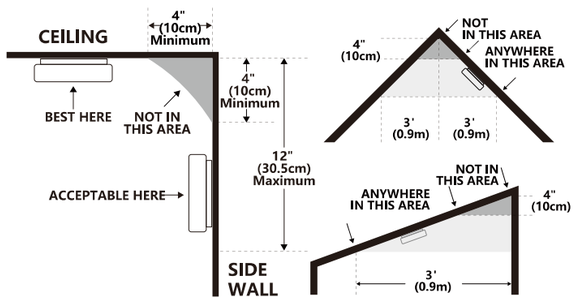


Diagram 2 Diagram 3

MOBILE HOME INSTALLATION

Modern mobile homes have been designed and built to be energy efficient. Install smoke alarms as recommended above (refer to RECOMMENDED LOCATIONS and diagram 2 and 3).
In older mobile homes that are not well insulated compared to present standards, extreme heat or cold can be transferred from the outside to the inside through poorly insulated walls and roof. This may create a thermal barrier which can prevent the smoke from reaching an alarm mounted on the ceiling. In such units, install the smoke alarm on an inside wall with the top edge of the alarm at a minimum of 4" (10cm) and a maximum of 12" (30.5cm) below the ceiling (see Diagram 2).
If you are not sure about the insulation in your mobile home, or if you notice that the outer walls and ceiling are either hot or cold, install the alarm on an inside wall. For minimum protection, install at least one alarm close to the bedrooms. For additional protection, see SINGLE FLOOR PLAN in Diagram 4 and MULTIPLE FLOOR PLAN in Diagram 5.

MULTIPLE FLOOR PLAN

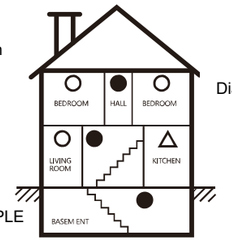
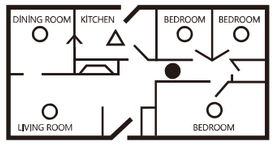


Diagram 4

SINGLE FLOOR PLAN

WARNING: TEST YOUR SMOKE ALARM OPERATION AFTER RV OR MOBILE HOME VEHICLE HAS BEEN IN STORAGE, BEFORE EACH TRIP AND AT LEAST ONCE A WEEK DURING USE.
ATTENTIONESTEZ VOTRE DÉTECTEUR DE FUMÉE APRÈS QUE VOUS RETIREZ VOTRE CARAVANE OU MOBILE HOME D'UN ENDROIT DE STOCKAGE, AVANT CHAQUE VOYAGE ET AU MOINS UNE FOIS PAR SEMAINE PENDANT UTILISATION.



● Smoke Alarms for Minimum Protection
○ Smoke Alarms for Additional Protection
△ Ionisation Type Smoke Alarm with Alarm Silencer or Photoelectric Type

Diagram 5

Installation:
Activation: Pull out the battery tab to activate your smoke alarm. (Refer to Diagram 6).

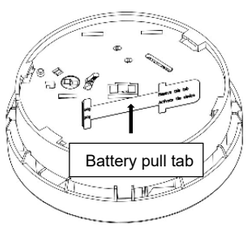


Diagram 6

CAUTION: this unit must be activated prior to installation. Failure to properly install and activate this alarm will prevent proper operation of this alarm and will prevent its response to fire hazards.

• Turn the alarm body counterclockwise and take off the bracket.
• Hold the bracket in the installation position as specified in the Recommended Locations, mark installation holes of the bracket with pencil.
• Drill the two marked installation holes with a 3/16 inch
(5mm) drill bit. Tap the two plastic grommets into holes with hammer.
• Remove locking plug from the bracket with screwdriver if necessary (Refer to Diagram 8). This is an optional additional locking in place feature.
• Mount the bracket to the ceiling by inserting and tightening the supplied screws into plastic grommets. (Refer to Diagram 7).
• Fit the alarm on the bracket and turn the alarm body clockwise, until fully inserted on the bracket.
Optionally insert locking plug into the gap between bracket and bottom cover for locking alarm in place (Refer to Diagram 9).
• Press the button to test the unit. The alarm should then sounds 3 beeps – 1.5 seconds pause, and will repeat until the button is released, if no sound, it indicates a defective alarm, refer to the "Trouble shooting" section for a solution or return to your retailer during warranty.
WARNING:
To prevent injury, this unit must be securely attached to the wall or ceiling in accordance with the installation instructions.

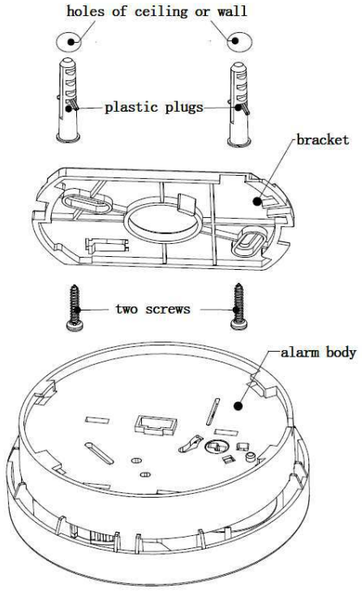


Diagram 7



Diagram 8



Diagram 9

Scrap and disposal:

When the battery is at end of life, an intermittent “chirp” with red LED flashes once every 48 seconds: indicates that the smoke alarm device is low battery. Please scrap it according to below following the steps and immediately buy another new alarm to replace it.
• Counterclockwise remove the product from bracket.
Take out the screws with a slotted screwdriver and remove smoke alarm from the bracket.
• Insert a slotted screwdriver into red plastic part on the base cover (Refer to Diagram 10).
• Rotate a screwdriver from the ON position to the OFF position counterclockwise.
• At this time, a red LED light up and indicating that the battery is discharging.
• Wait for at least One day. , allow that the battery inside the product is fully exhausted. You can scrap and dispose it according to the local law.
Note:
1. When a red LED is off, it does not mean that the battery is fully exhausted, rather, it is necessary to also allow the battery to fully discharge for at least Seven days.
2. Use this method to scrap the alarm if the is the end of life during out of warranty.
3. Please return to retailer and exchange another alarm during the Warranty period.
4. Cannot install the smoke alarm again once the battery is discharged.



Diagram 10

California State Fire Marshal

Early warning fire 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 the bedrooms), heat or smoke detectors in the living rooms, dining rooms, bedrooms, kitchens, hall-ways, attics, furnace rooms, closets, utility and storage rooms, basements and attached garages.

SERVICE AND WARRANTY

Company warrants to the original consumer. Purchase each new smoke alarm to be free from defects in material and workmanship under normal use and service for a period of 3 years from the date of purchase. This warranty does not cover damage resulting from accident, misuse or abuse or lack of reasonable care of the product. In no case shall company be liable for any incidental or consequential damages for breach of this or any other warranty express or implied, whatsoever. The bad product can be mailed to the following address with a detail explanation of problem.If after reviewing this manual you feel that your smoke alarm is defective in any way, do not tamper with the unit.
Return it for servicing to:
SITERWELL ELECTRONICS CO., LIMITED
ADDRESS: No.666 Qingfeng Road, Jiangbei District, Ningbo, Zhejiang Province, China

Http:store.siterwellhome.com

E-mail: service@siterwellhome.com