

Smoke Alarm User Manual

Model number: GS558A Ref: ST558

Thank you for purchasing our smoke alarm with wireless and heat detection. Please take a few minutes to read the user's manual thoroughly and familiarize yourself and your family with its operation. And save it for future reference.

EN14604:2005/AC:2008



Product Specifications:

Power : DC2*1.5V Alkaline AA battery (Gold Peak Group: GP 15A LR6 or Energize: E91 or Raymax: LR6)

Operation current : <4uA (standby), <40mA (alarm)

Alarm volume : >85dB(A) at 3 meters.

Smoke sensitivity : 0.100-0.163dB/m

Heat sensitivity: 54-70°C

Local smoke alarm sound pattern:

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.

Local heat alarm sound pattern:

BI 0.2s - pause 0.1s, with the red LED flash, repeat this alarm pattern.

Wireless alarm sound pattern:

Bi - Bi - pause 1.2s, with the red LED flash, repeat this alarm pattern.

Description:

The unit is a photoelectric 3V DC smoke alarm. It is operated by 3v AA Alkaline battery. With the photoelectric technology, it is more sensitive to detecting slow smolder fires which general thick, black smoke, little heat and may smolder for hours before bursting into flames. The smoke alarm do not contain the radioactive material which is harmless to the environment.

The smoke alarm should be installed in every room (except the bathroom), and every other area of the home, making sure the people in the home will be able to hear and respond to the alarm sound. For minimum protection you should fit an alarm in the

hallway between the living areas and sleeping areas. Place the unit near to the living areas as possible and ensure the alarm is audible when the bedrooms are occupied.

Typical single storey dwelling with recommended:

Install a smoke alarm on the ceiling 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 with recommended protection.

Install a smoke alarm on the ceiling 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: Do not remove or disconnect battery. This will take out your protection. Open windows or fan the air around smoke alarm for silence it.
- 3: This smoke alarm should be installed only by a licensed, qualified electrician. Observe and follow all local and national electrical and building codes for installation.
- 4: This smoke alarm is designed to be used inside a single family only. In multifamily buildings, each individual living unit should have its own smoke alarms. Do not install in non-residential buildings. And 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 damage, 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 this case, Smoke may not remake the unit alarm **QUICKLY ENOUGH** to ensure safe escape.
- 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 insure 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 unit every 10 years.

Do Not Install Smoke Alarms in the Following Places:

- 1: Near appliances or areas where normal combustion Regularly occurs (kitchens, near furnaces, hot water heaters). Use specialized smoke alarm with unwanted alarm control for this areas.
- 2: In areas with high humidity, like bathrooms or areas near dishwashers or washing machines. Install at least 10feet away from these areas.
- 3: Near air returns or heating and cooling supply vents. Install at least 3 feet away from these areas. The air could blow smoke away from the detector, interrupting its alarm.
- 4: In rooms where temperatures may fall below 40°F or rise above 100°F .
- 5: In extremely dusty, dirty, or insect – infested areas influence particles interfere with smoke alarm operation.

Battery Specification:

Rating voltage: DC 1.5V

Package: AA alkaline battery

Recommend battery:

Energize: E91

Gold Peak Group: GP15ALR6

Raymax: LR6

Replace Battery:

- 1: Turn the alarm body counterclockwise and take out the alarm body from the bracket.
- 2: Take out the old battery from the battery box.
- 3: Fix the two new batteries to the battery box. Please note the battery polarity.
- 4: Fix the battery into battery box, fit alarm body on bracket and turn the alarm body clockwise.

- 5: Test smoke alarm using test button. The sound pattern is 3 short beeps-1.5seconds pause, repeat it. If there's no sound output, it means that the smoke alarm is faulty or the installing operation is wrong, and you should gain the correctly method of disposal through reading "TROUBLE SHOOTING".

NOTE: During testing, because the unit send the wireless signal, may the other smoke detector will alarm. Once release the test button, the other smoke detector will stop alarming in 1 minute.

LED indicator

- 1: When the alarm is running normally, the red LED will flash 1 time per 40 seconds.
- 2: When the battery failure or low battery is detected, the alarm will "chirp" 1 time and with a corresponding red LED flashing 1 time per 40 seconds.
- 3: When the unit is fault, the alarm will "chirp" 1 time per 40 seconds.
- 4: When the unit is running in the silence mode, the red LED will flash once every 8 seconds.

Note: When the units chirp 1 time per 40 second, Press the test button, it will be paused for this warning tone for 8 hours. It can still normally detect smoke during this period, it only remove nuisance warning tone.

Alarm silence (silence mode)

During the unit is alarming, push the test button, it will be paused the unit alarming for approx 10 minutes. The red LED will flash once every 8 seconds, it indicates the smoke alarm is running into the silence mode. Smoke alarms are designed to minimize nuisance alarms. Combustion particles from cooking may set off the alarm if the alarm is located close to the cooking area. Large quantities of combustible particles are generated from spills or when grilling/frying. Using the fan on a range hood that vents to outside (non-recirculating type) will also help remove these combustible particles from the kitchen. The alarm 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 will automatically reset after approximately 10 minutes, if after this period, particles of combustion are still present, the alarm will sound again.

The alarm silencer (silence mode) can be repeatedly until the air has been cleared of the condition causing the alarm.

Testing the Smoke Alarm:

Test each smoke alarm to be sure it is installed correctly and operating properly.

- 1: Do not use an open flame to test the alarm. You may ignite and damage the alarm or your home.
- 2: Test the alarms weekly and upon return from vacation or when no one has been at home for several days.
- 3: Stand at an arm's length from the unit when testing.

Test all smoke alarms weekly by doing the following step.

- 4: Firmly press the test button for at least 5 seconds. The alarm will sound 3 short beeps – 1.5 seconds pause, then repeat it until release the button. The alarm may sound for up to a few seconds after releasing the test button.

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.**

Wireless function description:

Wireless frequency: 433MHz

Operation current:

RF Receiver: <5mA

RF emitter: <10mA

Wireless distance: >20 meters

Note: Make sure the battery is installed well before operating the product.

1: Send wireless coding mode

- a: Press and hold the test button on the alarm until the red LED light about 1S, release the button, the alarm enters into the wireless coding sending status. The LED is always ON. If you press the test button or have not wireless learning signal within 30 second, the LED will be OFF.

Note: enter this mode from standby status, press and hold the button for about 12 seconds required.

- b: When there are other alarms received in response to this wireless coding command, the red LED flashes for about 2 seconds. Then re-enter the wireless coding sending status, waiting for the next alarm response. If there is no alarm response to this command within 30 seconds, the unit will exit automatically.

2: Learning mode

- a: Press the test button of the alarm, the red LED light 1 second, then release the button immediately, the alarm enters into learning mode. Note: There must have other alarms in the "Send Wireless coding mode", this alarm will be able to enter into the learning mode.
- b: If the learning is successful, the red LED flashes for about 2 seconds, then exit the learning mode automatically.

3: Clear code mode

- a: Press and hold the test button on the alarm until the red LED flashes for about 1 second, release the button, the alarm enters the clear code mode. Note: enter this mode

from standby mode, press and hold the button for about 16 seconds required.

- b: After releasing the button, press the button when the red LED lights up, release the button when the red LED is off, if you hear the sound of `BI` sound after two cycles, that indicates clear code is success, the alarm own wireless code and the wireless code learned will be reset to the new code, the new code is random.

4: How to match each other smoke alarm

- a: Take one alarm to enter into "send wireless coding mode".
- b: Take another alarm into learning mode, when the red LED flashes for 2 seconds, which means that the learning success.
- c: Follow steps b to complete the all alarms.
- d: Press the test button, exit the “ send wireless coding mode”. The red LED is OFF. Wait for about 30 seconds.
- e: Take one alarm, press the test button and hold for about 30 seconds. If other alarms all enter into the wireless alarm status. That indicates a successful match.

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 month to remove dust, dirt, or debris.

Use a vacuum cleaner with the soft brush, vacuum all sides and covers of smoke alarm. Be sure all the vents are free of debris.

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

WARNING! Use only the batteries specified. Use different batteries may have detrimental effects on the alarm. A good safety measure is to replace the battery at least once a year.

Note: Reinstall immediately after cleaning and then test unit using the test button.

Repair:

Caution: Do not attempt to repair the alarm. It will affect your warranty.

If the alarm is not operating properly, and is still under warranty, return it to the original place you buy. Pack it in a well-padded carton, and ship to the original place you buy.

If the alarm is no longer under warranty, have a licensed electrician replace it immediately with a comparable alarm.

Practice Fire Safety:

If the alarm sounds, and you have not pushed the test button, it is warning of a dangerous situation, your immediate response is necessary. To prepare for such occurrences, develop family escape plans, discuss them with all household members, and practice them regularly.

- 1: Expose everyone to the sound of a smoke alarm and explain what the sound means.
- 2: Determine two exits from each room and an escape route to the outside from each exit.
- 3: Teach all household members to touch the door and use an alternate exit when the door is hot, instruct them not to open the door if the door is hot.
- 4: Teach household members to crawl along the floor to stay below dangerous smoke, fumes and gases.
- 5: Determine a safe meeting place for all members outside the building.

What to Do in Case of Fire:

- 1: Do not be panic; stay calm.
- 2: Leave the building as quickly as possible. Touch doors to feel if they were hot before opening them. Use an alternate exit if necessary. Crawl along the floor, and do stop to collect anything.
- 3: Meet at a pre-arranged meeting place outside the building.
- 4: Call the fire department form outside the building.
- 5: Do not go back inside a burning building. Wait for the fire department to arrive.

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.

Trouble shooting:

DO NOT disconnect battery to quiet an unwanted alarm. This will remove your protection. Fan the air or open a window to remove smoke or dust.

Problem	Method of disposal
Smoke alarm does not sound when tested.	Remove smoke alarm from bracket. then Check the battery is properly connect to battery connector.
Smoke alarm beeps with the red LED flash about once 40 seconds.	Replace battery, please refer to “REPLACE BATTERY” section.
Smoke alarm sounds unwanted alarms intermittently or when residents are cooking, taking showers, etc.	<ol style="list-style-type: none"> 1. Clean smoke alarm. Please refer to the “maintenance and cleaning” section. 2. Hire an electrician to move smoke alarm to a new location.
The alarm sounds different from it is used to. It starts and stops.	<ol style="list-style-type: none"> 1: This alarm is operating correctly. 2: Clean smoke alarm. Please refer to the “maintenance and cleaning” section.

Warranty Information:

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. Before you install the alarm, please read the instruction.

Where is the best to be Installed:

- At first you need install one unit in the bedroom and route way, if you have several bedrooms, you’d better install each alarm in every room.
- Install it in the stairway and in every floor.
- Smoke, heat and burning things will spread horizontally after rising to the ceiling, so install the alarm on middle of the ceiling of ordinary structure house .let the alarm induce every corner.
- If alarm couldn’t be installed in the middle of the ceiling for some reasons, the distance which the alarm away form the wall corner should be beyond 50cm. (see the diagram 1).
- If the length of the room or the hall is beyond 30 foot, you need install several alarms in the hall.
- When the ceiling is slanting, the alarm needs to be installed 500mm away from the highest ceiling point in the room (see the diagram 2).

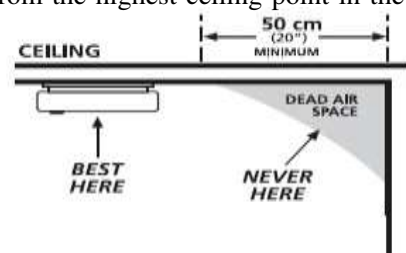


Diagram 1

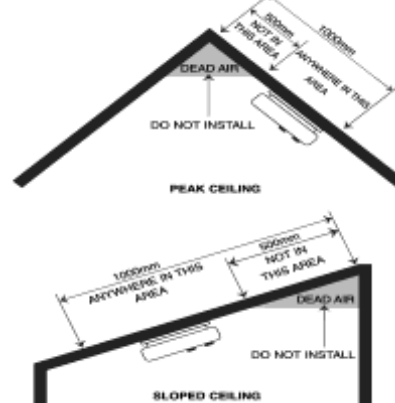


Diagram 2

Installation:

- Fix the two AA batteries to each battery box of the smoke alarm.
- According to the **“Wireless function description”** Section to operate the smoke alarm. Ensure the wireless function is ok.
- Then press the bracket on the installation position, mark installation hole of bracket with pencil.
- Bore two installation hole on the sign with electric drill. Make diameter of holes is 5mm, Strike the two plastic plugs into holes with hammer.
- Attach the bracket to the plastic plugs and fix tightly the screws (3*25mm) into the plastic plugs. (refer to Diagram 3).
- Fit the alarm on the bracket and turn the alarm body clockwise, until matching well on the bracket.
- Test smoke alarm using test button. The alarm will sound 3 short beeps – 1.5 seconds pause, then repeat it until release the button.
- if no sound, it indicates a defective alarm, you can refer to “Trouble shooting” for solution or return to your retailer during warranty.
- If you have any questions on installation, you can contact your retailer.
- During testing, may the other smoke detector will alarm. Once release the button, others will stop alarming in 1 minute. In such a way, you can check the wireless function.

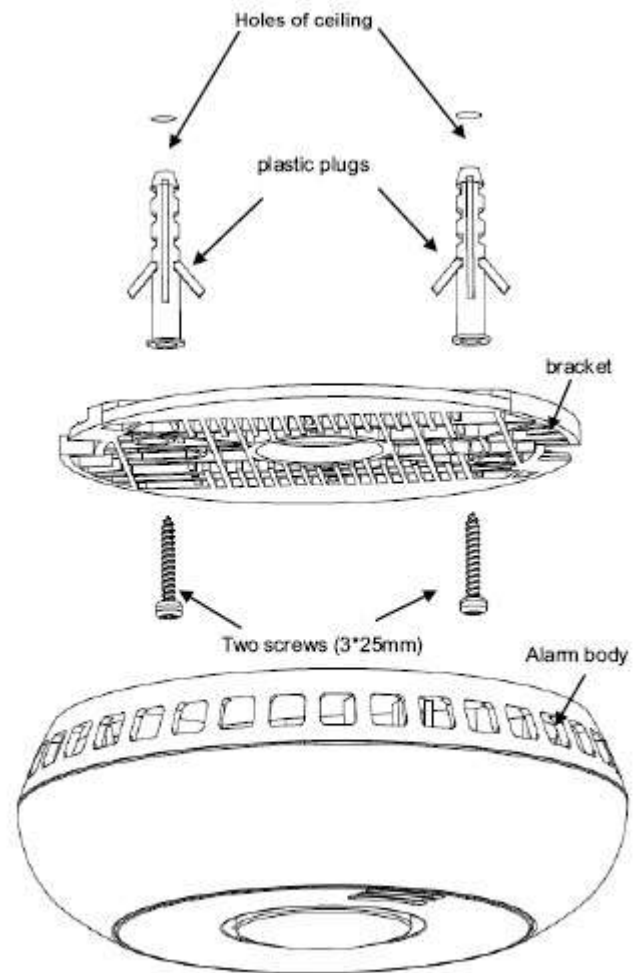


Diagram 3

WARNING:

To prevent injury, this unit must be securely attached to the ceiling in accordance with the installation instructions.

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