

# Smoke Alarm Device User Manual

**Model number: GS522**

**Ref: ST522**

Thank you for purchasing our smoke alarm device. 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.



**Diagram 1**

## Product Specifications:

- **POWER:** built-in DC3V(CR123A) Lithium battery (battery not replaceable)
- **OPERATION CURRENT:** <8uA (standby), <70mA (alarm)
- **ALARM VOLUME:** >85dB(A) at 3 meters.
- **ALARM SENSITIVITY:** 0.09-0.17dB/m
- **SILENCE TIME:** approx. 10 minutes
- **SMOKE ALARM DEVICE SOUND PATTERN:** ISO8201(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 STAANDARD:** EN14604:2005/AC:2008

## Description:

The unit is a photoelectric smoke alarm device. With the photoelectric technology, it is more sensitive to detecting slow smolder fires which general thick, black smoke, a little heat and may smolder for hours before bursting into flames. The smoke alarm device does not contain the radioactive material which is harmless to the environment.

The smoke alarm device should be installed in every room (except the bathroom and kitchen), 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 respectively for the hallways, living room, bedrooms and child rooms, each unit

shall be placed in the middle of the ceiling of each room to protect.

Typical single storey dwelling with recommended:

Install a smoke alarm device 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 device at each end. If there is a basement: install a smoke alarm device on the basement ceiling at the bottom of the stairwell.

Typical multi-storey dwelling with recommended protection.

Install a smoke alarm device 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 device at each end install a smoke alarm device at the top of a first – to- second floor stairwell.

## Important Safety Information:

- 1: The test button accurately tests smoke alarm device functions. Do not use any other test method. Test smoke alarm device 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 device for silence it
- 3: This smoke alarm device is designed to be used inside a single family only. In multifamily buildings, each individual living unit should have its own smoke alarm devices. Do not install in non-residential buildings. And this smoke alarm device is not a substitute for a complete alarm system.
- 4: Install a smoke alarm device in every room and on every level of the home. Smoke may not reach the smoke alarm device 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 device in time to alert household members. A smoke alarm device will not promptly detect a fire except in the area or room in which it is installed.
- 5: Smoke alarm device 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 device may not alert a household member, install and maintain specialty smoke alarm devices. 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 alarm devices with lights or vibrating devices to alert occupants.

- 6: Smoke alarm devices 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 device 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 circs, Smoke may not remake the unit alarm **QUICKLY ENOUGH** to ensure safe escape.
- 7: Smoke alarm devices have limitations. This smoke alarm device is not foolproof and is not warranted to protect lives or property from fire. Smoke alarm devices are not a substitute for insurance. Homeowners and renters should insure their lives and property. In addition, it is possible for the smoke alarm device to fail at any time. For this reason, you must test the smoke alarm device weekly and replace unit every 10 years.

### **Do Not Install Smoke alarm devices in the Following Places:**

- 1: Near appliances or areas where normal combustion Regularly occurs (kitchens, near furnaces, hot water heaters). Use specialized smoke alarm device with unwanted alarm control for this areas.
- 2: In areas with high humidity, like bathrooms or areas near dishwashers or washing machines. Install al 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 5°C or rise above 45°C, or in humidity higher than 85%. These conditions will reduce battery life or cause a fault alarm.
- 5: In extremely dusty, dirty, or insect – infested areas influence particles interfere with smoke alarm device operation.

### **Operation:**

#### **Testing**

Alarm is powered on by mounting the bracket. Test the unit to ensure proper operation by pressing the test button, this will sound the alarm if the electronic circuitry, Bracket is mounted, horn, and battery are working. If no alarm sounds,

there is a defective battery or other failure, you can refer to “Trouble shooting” section for solution.

**DO NOT** use an open flame to test your alarm, you could damage the alarm or ignite combustible materials and start a 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, you can refer to “Trouble shooting” section for solution.

**NOTE: WEEKLY TESTING IS REQUIRED.**

#### **LED indicators**

Red LED-Flashing once every 40 seconds: indicates that the smoke alarm device is operating properly.

Red LED-Flashing: when the test button is pressed, or when the smoke alarm device sense particles of combustion and goes into alarm (constant pulsating sound), the red LED will flash once per second. The flashing LED and pulsating alarm will continue until the air is cleared or release test button.

Red LED-Alarm silencer (Hush mode) indication: The red LED will flash once every 8 seconds, indicating the smoke alarm device is in the alarm silence (Hush) mode.

Low battery indication - An intermittent “chirp” with red LED flashes once every 40 seconds: indicates that the smoke alarm device is low battery, you may press the test button for pause alarm for 10 hours, but it will reset automatically after 10 hours.

Fault indication - The alarm chirp occurs every 40 seconds.

**NOTE:** When the units chirp once every 40 seconds, you can press the test button temporarily for pausing this warning tone for 10 hours, it can still normally detect smoke during this period, it only removes nuisance warning tone. You can refer to “Trouble shooting” for solution, if there are still failures, **you MUST replace it with a new alarm at once** or contact you retailer during warranty.

#### **Alarm silence (silence mode)**

During the unit is alarming, you 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 device is running into the silence mode. Smoke alarm devices 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 device is desensitised by push the alarm silence (silence mode) on the smoke alarm device cover, the alarm will silence to indicate that the alarm is in a temporarily desensitised condition.

The smoke alarm device 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.

**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.**

### 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 device.

This alarm has a low battery monitor which will cause the alarm to “chirp” approx every 40 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 in cover and not replaceable.** Please replace another new alarm if the low battery chirp occurs.

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

### 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.

### Trouble shooting:

Problem	Method of disposal
Smoke alarm device does not sound when tested.	<ol style="list-style-type: none"> <li>1. Fit the alarm on the bracket and turn the alarm body clockwise, until matching well on the bracket.</li> <li>2. Clean smoke alarm device. Please refer to the “maintenance and cleaning” section.</li> <li>3. If there are still failures during warranty, you can return to your retailer.</li> <li>4. If the unit is out of warranty, please replace another new alarm.</li> </ol>
The alarm “chirp” with red LED flashes once every 40 seconds.	The battery is under low battery status, please replace the smoke alarm device.
Smoke alarm device chirp occurs every 40 seconds (alarm goes into fault mode) .	Clean smoke alarm device. Please refer to the “maintenance and cleaning” section. Purchase and change another smoke alarm device if the problem still exist
Smoke alarm device sounds unwanted alarms intermittently or when residents are cooking, taking showers, etc.	<ol style="list-style-type: none"> <li>1. Press test button to pause alarm.</li> <li>2. Clean smoke alarm device. Please refer to the “maintenance and cleaning” section.</li> <li>3. Move smoke alarm device to new location and press test button.</li> </ol>
The alarm sounds different from it is used to. It starts and stops.	<ol style="list-style-type: none"> <li>1. Clean smoke alarm device. Please refer to the “maintenance and cleaning” section.</li> <li>2. If there are still failures during warranty, you can return to your retailer.</li> <li>3. If the unit is out of warranty, please replace another new alarm.</li> </ol>

### 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 device 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.

### **Warranty Information:**

Company warrants to the original consumer. Purchase each new smoke alarm device 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.

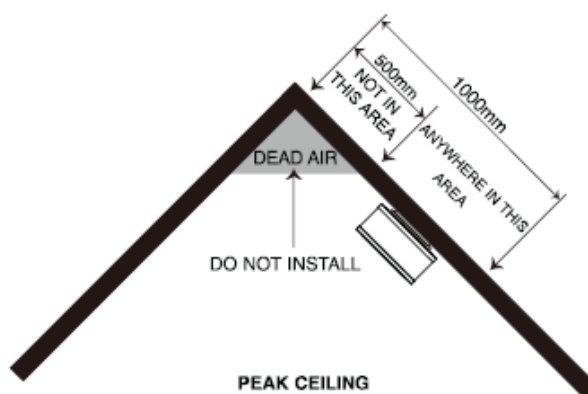
### **Where is the best to be Installed:**

- At first you need install an alarm in the bedroom and route way, In the case of several bedrooms, you shall install an alarm in every bedroom.
- 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 2).
- 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 minimum 500mm away from the highest ceiling point in the room (see the diagram 3).



**Diagram 2**



**Diagram3**

## Installation:

- Take off the bracket from the alarm body.
- Press the bracket on the installation position, mark installation hole of the bracket with pencil.
- Bore two installation holes 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 into the plastic plugs. (Refer to Diagram 4).
- Fit the alarm on the bracket and turn the alarm body clockwise, until matching well on the bracket.
- Press the button for test the unit. The alarm sounds 3 beeps – 1.5 seconds pause, 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.

### **WARNING:**

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

Characteristics certified by the BOSEC-brand	
Mounting type	ceiling
Main power source	Batteries ( best - before:2021-06-04 )
Autonomy	At least 10 years
Interconnectable device	-
Suitable for installation in a recreational vehicle	NO
Individual alarm indicator	Yes
Alarm prevention facility	Yes

### **Manufacturer:**

**Siterwell Electronics CO., Limited**

**ADDRESS: No.666 Qingfeng Road, Jiangbei**

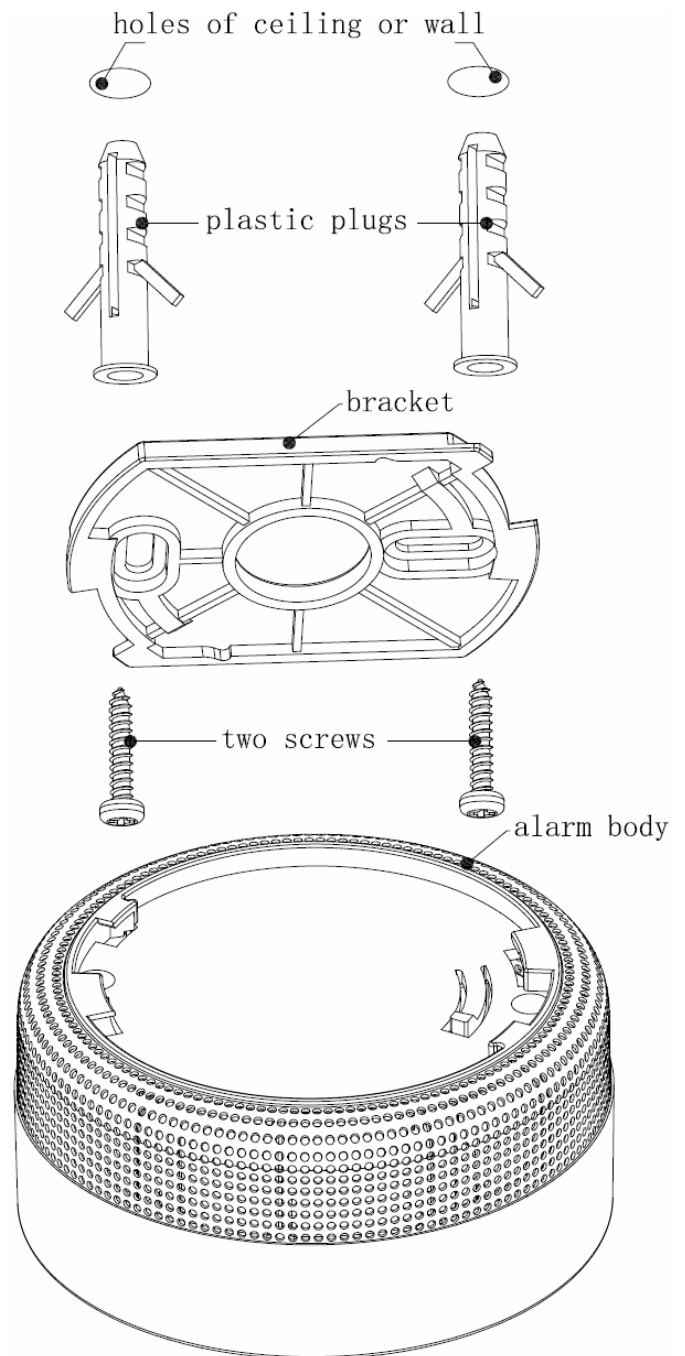
**District, Ningbo, Zhejiang Province, China**

**TEL: 0086-574-87729581**

**FAX: 0086-574-87729581**

**E-MAIL: Sales@china-siter.com**

## Installation sketch map:



**Diagram 4**