

INSTRUCTION MANUAL



MODEL: GB-2088F TWIN RADIO FREQUENCY SMOKE ALARMS

**READ THESE INSTRUCTION COMPLETELY BEFORE USE
AND KEEP FOR FUTURE REFERENCE**

CONTENTS

SPECIFICATION	2
IMPORTANT SAFETY INFORMATION	2
BATTERY CONNECTION	3
WHERE TO INSTALL SMOKE ALARMS	3
WHERE NOT TO INSTALL SMOKE ALARMS	4
INSTALLATION	4
TESTING THE SMOKE ALARM	5
REPLACING BATTERY	5
CLEANING	6
REPAIR	6
WHAT TO DO IN CASE OF FIRE	6
TROUBLESHOOTING	7

SPECIFICATION

Power supply: 9V DC battery

Photoelectric sensor

Radio frequency: 433.92 MHz

Range: 50 meters (min) in free space

Maximum link number: 20

Two-tone LED:

- Red LED indicates alarm
- Green LED indicates radio signal is received

"Battery missing" lockout

Low battery alarm

High sensitivity

Humidity range: 15% to 95% RH

Operating temperature: -10°C to +50°C

Built-in sounder to give a minimum sound output of 85dB at 3m

Senses smoke using the light scatter principle

Quick response to visible smoldering smoke

Test button simulates smoke – use to check performance

Standby current: <40uA

Alarm current: <30mA

IMPORTANT SAFETY INFORMATION

1. The test button accurately tests all 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 to silence it.
3. 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. This smoke alarm is not a substitute for a complete alarm system.
4. 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.
5. 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.
6. 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 make the unit alarm QUICKLY ENOUGH to ensure safe escape.

- 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 every 3 years.

**FOR BEST PROTECTION, WE RECOMMEND YOU TO
INSTALL A SMOKE ALARM IN EVERY ROOM**

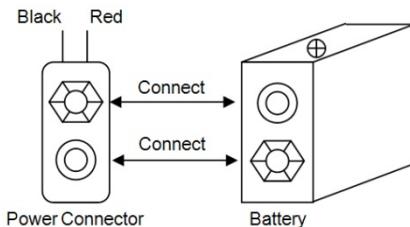
Typical single-storey dwelling with recommended protection.

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 with recommended protection.

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.

BATTERY CONNECTION



Battery Rated Voltage: 9V DC
Package: 6LR61
Size: 26mm*17mm*49mm

Diagram 1

WHERE TO INSTALL SMOKE ALARMS:

- Install a smoke alarm in every bedroom and in the hallway outside each room.
- Install a smoke alarm in the stairway and in every floor.
- Smoke, heat and burning things will spread horizontally after rising to the ceiling. Install one smoke alarm on the center of the ceiling.
- If installing in the ceiling (other than the center), it should be 10 cm away from wall corner. (See Diagram 2)
- If installing the smoke alarm on the wall, it should be 10 cm below the ceiling. (See Diagram 2)
- If the length of the room or the hall is beyond 30 feet, install several smoke alarms in the hall.
- When the wall or ceiling is slanting, install the alarm 4 feet away from the highest wall or ceiling point in the room. (See Diagram 3)

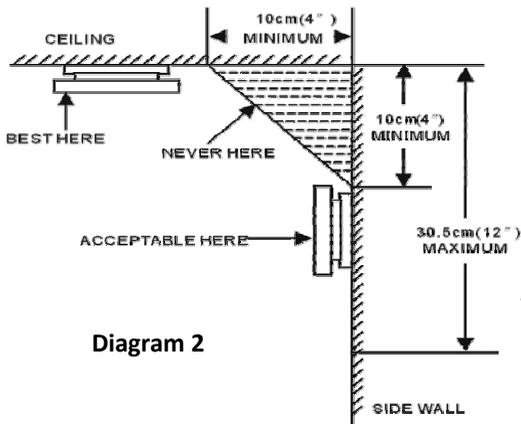


Diagram 2

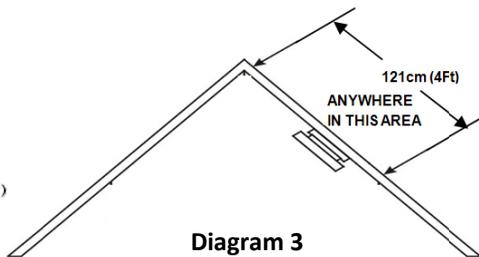


Diagram 3

WHERE NOT TO INSTALL SMOKE ALARMS:

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 10 feet 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. Particles will interfere with smoke alarm operation.

INSTALLATION

1. Turn the alarm body counterclockwise and take off the bottom plate.
2. Press the bottom plate on the installation site. Using a pencil, mark the two installation holes of the plate.
3. Bore holes on the marked spots with a drill. Strike the dilatants into the holes with a hammer. Screw the bolts with gasket into half of the dilatants, and then hang the bottom plate on the screws. Tighten the screws. (See Diagram 4)
4. Fix the battery into the battery box. Close the alarm. Align the alarm with the bottom plate. Turn the alarm body clockwise until you hear a “click”. (See Diagram 6)
5. Test smoke alarm using push-to-test button.

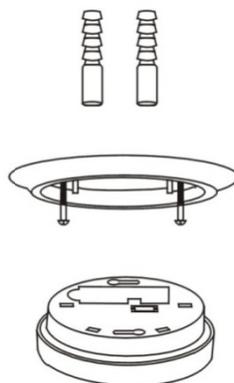


Diagram 4

WARNING:

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

TESTING THE SMOKE ALARM

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

1. The push-to-test button accurately tests function. Do not use an open flame to test this smoke alarm. You may ignite and damage the smoke alarm or your home.
2. Test smoke alarms weekly and upon returning from vacation or when no one has been in the household for several days.
3. Stand at arm's length from the smoke alarm when testing.
4. Firmly depress the test button for 3-5 seconds. The smoke alarm will sound short beeps continuously. Release the test button and the local alarm sound will stop.
5. The other smoke alarm will sound and its LED will flash. (Depending on the distance between the alarms, the time for which the second alarm will be triggered is about 3-15 seconds.) The alarm may sound for up to 30 seconds.

DANGER: If alarm horn sounds and smoke alarm is not being tested, the smoke alarm is sensing smoke.

THE SOUND OF THE ALARM HORN REQUIRES YOUR IMMEDIATE ATTENTION AND ACTION.

REPLACING BATTERY

1. Turn the alarm body counterclockwise and take out alarm body.

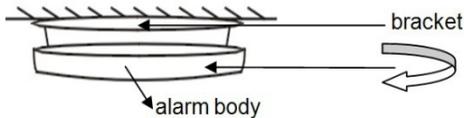


Diagram 5

2. Connect power line, according to "BATTERY CONNECTION" (Diagram 1).
3. Fix the battery into the battery box, fit alarm body on bracket and turn the alarm body clockwise.

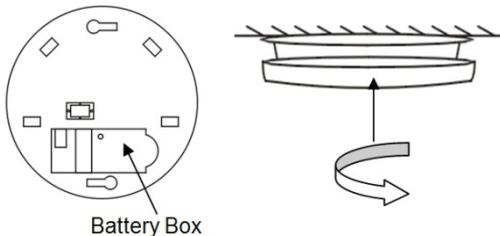


Diagram 6

4. Test smoke alarm using push-to-test button.

CLEANING

In addition to weekly testing, this smoke alarm requires yearly battery replacement and periodic cleaning to remove dust, dirt, and debris.

Clean the smoke alarm at least once a month to remove dust, dirt, or debris. Always turn off power of the smoke alarm before cleaning.

Using a soft brush or wand attachment to a vacuum cleaner, vacuum all sides and cover of smoke alarm. Be sure all the vents are free of debris.

If necessary, turn off power and use a damp cloth to clean smoke alarm cover.

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

REPAIR

CAUTION: Do not attempt to repair this smoke alarm. Doing this will void your warranty.

If smoke alarm is not operating properly and is still under warranty, return smoke alarm to our company. Please pack it in a well-padded carton before sending.

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

WHAT TO DO IN CASE OF FIRE

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

These guidelines will assist you in the event of a fire. However, to reduce the chance that fire will start, always practice fire safety procedures.

TROUBLESHOOTING

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	SUGGESTION
Smoke alarm does not sound when tested. NOTE: Push test button for at least 5 seconds while testing.	Remove smoke alarm from mounting plate and check that connector plug is securely attached. Check that battery is properly linked to connector. Clean smoke alarm.
Smoke alarm beeps about once a minute.	Replace battery.
Smoke alarm sounds unwanted alarms intermittently or when residents are cooking, taking showers, etc.	Clean smoke alarm. Hire an electrician to move smoke alarm to a new location.
The alarm sounds different than it used to. It starts and stops.	This alarm is operating correctly. This alarm features the internationally recognized horn signal for evacuation. The horn pattern is 3 short beeps followed by a 2 second pause and then repeats.

*****This product has no user serviceable parts*****

