

AEGISLINK

Wireless Interlinked Smoke Alarm

Model: S-RF200/S-RF220/S-RF240

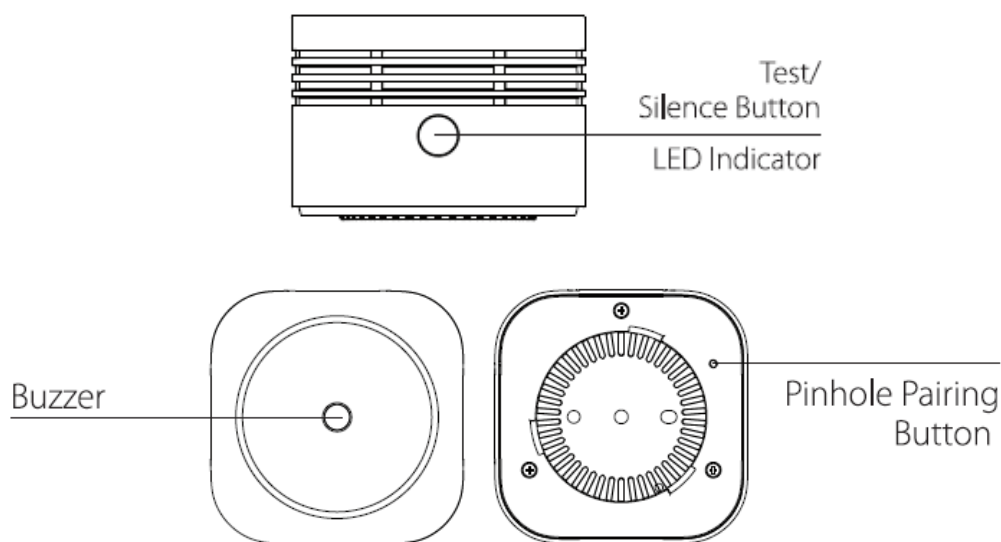
User Manual

This user manual contains important information regarding the operation of your AEGISLINK smoke alarm. Ensure you read this user manual fully before installing and operating the alarm. If you are installing this smoke alarm for use by others, you must leave this manual (or a copy of it) with the end user.

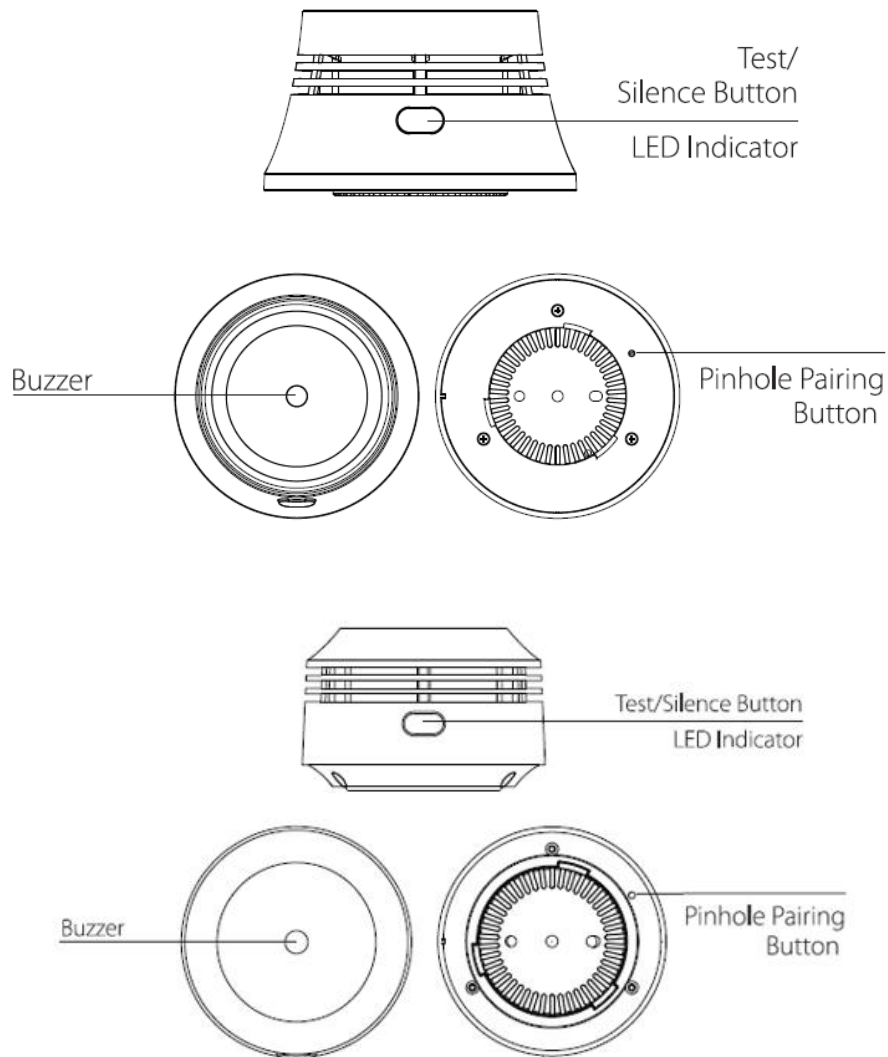
Introduction

Thank you for purchasing our smoke alarm. This smoke alarm conforms with UL 217 standard and is designed to detect smoke. Our product lineups are constantly expanding.

Product Profile



S-RF200



S-RF220

S-RF240

Buzzer

Test/Silence Button

LED Indicator

Pinhole Pairing Button

Package Contents

- 1 × Alarm Unit
- 1 × Mounting Bracket
- 2 × Screws
- 2 × Anchor Plugs
- 1 × User Manual

1 × Pin

Safety Information

IMPORTANT!

1. DANGERS, WARNINGS, AND CAUTIONS ALERT YOU TO IMPORTANT OPERATING INSTRUCTIONS OR TO POTENTIALLY HAZARDOUS SITUATIONS. PAY SPECIAL ATTENTION TO THESE SITUATIONS.
2. THIS ALARM IS NOT INTENDED TO ALERT HEARING IMPAIRED INDIVIDUALS. THE USE OF ALCOHOL OR DRUGS MAY ALSO IMPAIR ONE'S ABILITY TO HEAR THE SMOKE ALARM.
3. FIRES IN CHIMNEYS, WALLS, ROOFS, DIFFERENT LEVELS OR BEHIND CLOSED DOORS MIGHT NOT BE DETECTED.
4. THIS DEVICE DOES **NOT** DETECT FLAMES, HEAT, CARBON MONOXIDE OR OTHER HAZARDOUS GASES.

WARNING!

1. NEVER IGNORE ANY ALARM. FAILURE TO RESPOND CAN RESULT IN SERIOUS INJURY OR DEATH.
2. THE SILENCE FEATURE IS ONLY FOR YOUR CONVENIENCE AND WILL NOT CORRECT A PROBLEM. ALWAYS CHECK YOUR HOME FOR A POTENTIAL PROBLEM AFTER ANY ALARM. FAILURE TO DO SO CAN RESULT IN INJURY OR DEATH.
3. TEST THIS SMOKE ALARM ONCE A WEEK. IF THE ALARM EVER FAILS TO TEST CORRECTLY, REPLACE IT IMMEDIATELY! IF THE ALARM CANNOT WORK PROPERLY, IT WILL NOT ALERT YOU TO A PROBLEM.

How to Set Up and Interconnect Wireless Alarms

All AEGISLINK wireless interlinked alarms contain a built-in RF module that enables you to wirelessly connect 2 or more interlinked alarms and create an interlinked network. When one unit is triggered, all interconnected alarms will sound. The AEGISLINKseries contain wirelessinterlinked smoke alarms, wirelessinterlinked carbon monoxide alarms, and wirelessinterlinked combination smoke and carbon monoxide alarms. This model is designed to be wirelessly interlinked with other AEGISLINK alarms, but is not designed

to communicate with wireless interlinked alarms from other manufacturers.

The wireless interlinked alarms in one multi-pack have already been interconnected to each other, so the alarms in each multi-pack have their own independent interlinked network. If you have more than one multi-pack, you will need to connect them all to the same network, but you do not have to disconnect each alarm individually. Choose one multi-pack as your base network and connect the other multi-packs to it.

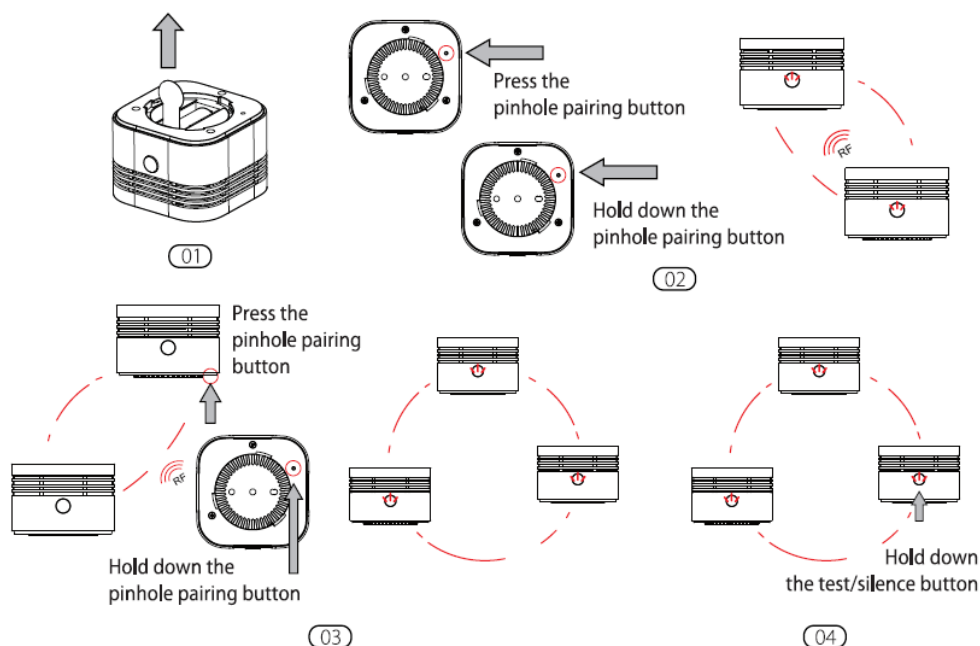
NOTE! The following instructions regarding wireless interconnection are applicable to AEGISLINK wireless interlinked alarms only.

How to Interconnect

1. Make sure you only work with 2 units at a time, and that they are both activated to ensure successful connection.

NOTE: To activate your alarms, remove the back cover from the device and pull out the battery insulating film from the battery compartment. To learn how to turn on different models of wireless interlinked alarms, please refer to their specific user manuals for more details.

2. Press the pinhole pairing button on the back of one of the two units using the included pin. It will beep once and the LED will flash red slowly, indicating it has entered pairing mode and is waiting for a new unit to be added. Hold down the pinhole pairing button on the other unit until it beeps once and its LED flashes red rapidly as it is searching for a unit to connect to.
3. After the search is successful and an interconnected group is created, both units will beep once and automatically exit the interconnection mode. At this point, both units will only flash once every 60 seconds, indicating they are in normal standby mode.
4. If you want to connect a third alarm to this group, first activate the new device according to its operating instructions. Press the pinhole pairing button on either of the two previously interconnected units using the included pin, it will beep once and the LED will flash red slowly, indicating it has entered pairing mode and is waiting for a new unit to be added. Hold down the pinhole pairing button on the new unit until it beeps once and its LED flashes red rapidly as it searches for a network to which it can connect. After the third unit successfully joins the interconnected network, both units will beep once and automatically exit the interconnection mode.
5. If you want to connect more units, simply repeat step 4. Up to 24 alarms can be interconnected this way. **To ensure that all alarms enter the same interlinked network, make sure you only work with 2 units at a time—one unit enters the pairing mode and the other unit enters the searching mode.**
6. Test the alarms according to the steps in the section “Alarm Test”.



Press the pinhole pairing button

Hold down the pinhole pairing button

RF

Hold down

NOTES

1. The alarm will enter the searching mode or the pairing mode for 60 seconds with the LED flashing red. After 60 seconds, repeat step 2 to connect the alarms. If needed, press the pinhole pairing button once while the alarm is in the searching mode or the pairing mode, and the LED will stop flashing red and the alarm will quit the pairing mode to enter normal status.
2. Test all wireless alarms to ensure they are interconnected before installation.
3. A maximum of 24 wireless alarms can be interconnected on the same network.
4. The model can only be interconnected with other AEGISLINK wireless interlinked alarms.

How to Disconnect

Press the pinhole pairing button using the pin and the unit will beep once. Then, hold down the pairing button until the unit beeps once more to disconnect. After disconnecting, it can be reconnected to the same network, or added to a new network.

Alarm Test

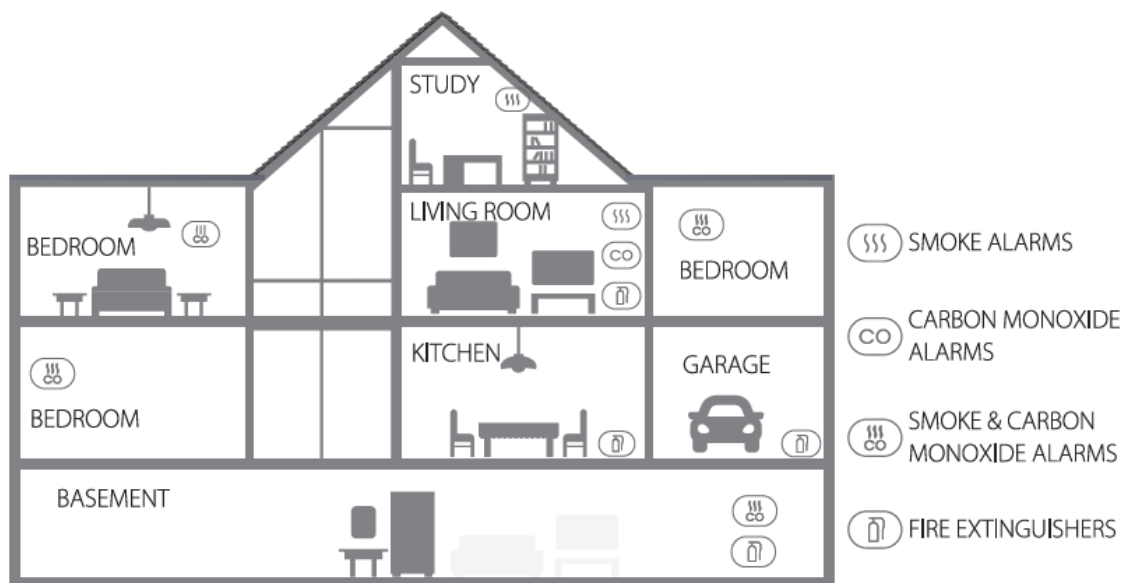
Be sure to test your alarms when you turn them on for the first time, or when the group configuration has changed. In addition to the weekly tests you should perform, it is recommended to test the alarm after returning from a long trip or vacation.

If your AEGISLINK S-RF200/S-RF220 is interconnected to other wireless alarms, we recommend that every individual alarm is tested during the weekly test.

	Test a Single Alarm	Test All Interconnected Alarms
Action	Press the test/silence button.	Hold down the test/silence button.
Indication	• The alarm will beep 3 times every 4 seconds. • The LED will flash red during the test and give an audible signal. • After testing, the alarm will automatically enter standby mode.	• The initiating unit will beep continuously with the LED flashing red. • Other interconnected units in the network will receive the signal after 5 seconds, then they will beep continuously with the LED flashing red and green successively. Release the test/silence button and all the units will stop testing. • The testing of the units should be completed within 3 minutes. • After testing, the units will automatically enter standby mode.

NOTE: The test function accurately tests the alarm's smoke sensing circuit without the need to test with smoke. If your smoke alarm fails to give an audible test signal, please refer immediately to the troubleshooting guide at the end of this manual. Never use an open flame to test this device.

Installation Positioning

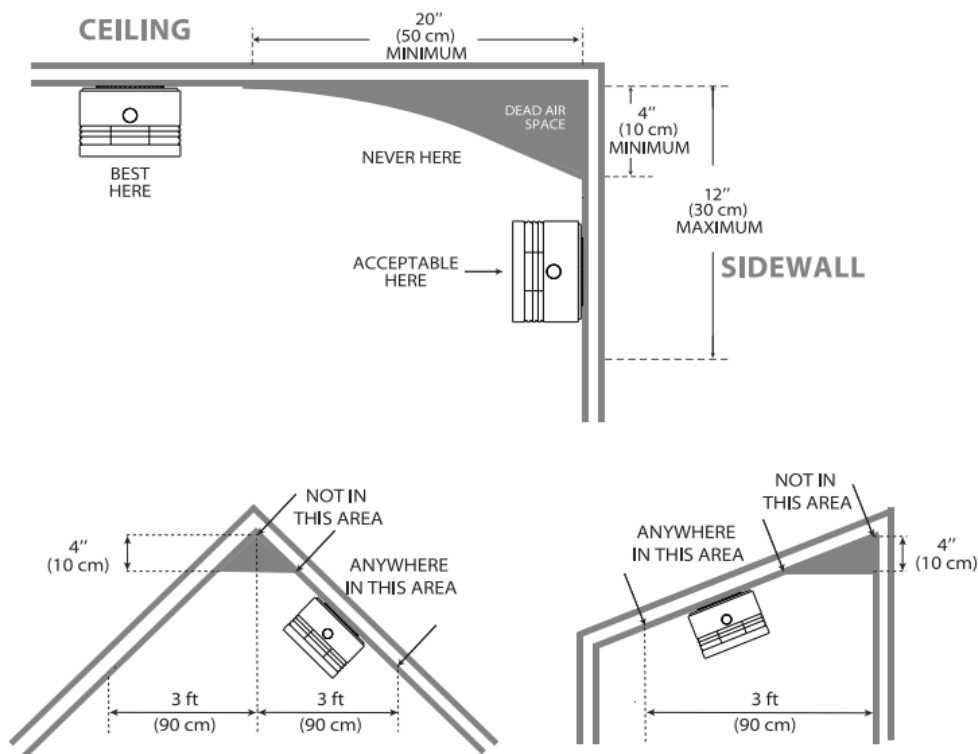


NOTE: *If a smoke alarm is installed in a kitchen, ensure it has an accessible silence button, and install it as far away from the stove and sink as possible to avoid false alarms.*

- ① Study
- ② Bedroom
- ③ Garage
- ④ Living Room
- ⑤ Kitchen
- ⑥ Basement
- ⑦ Smoke Detectors
- ⑧ Carbon Monoxide Detectors
- ⑨ Smoke & Carbon Monoxide Detectors
- ⑩ Fire Extinguishers

1. Prioritize the installation of an alarm in the bedroom and walkways, and make sure you can hear the alarm from all sleeping areas. In a home with several bedrooms, install an alarm in every bedroom. If you install only one smoke alarm in your home, install the alarm near to all bedrooms where possible, and not in a basement or furnace room.
2. Install an alarm above the stairway and on every floor of the house.
3. Smoke, heat and anything burning will spread horizontally after rising to the ceiling, so install the alarm in the middle of the ceiling where possible. Ensure that the alarm is installed at the minimum distance away from corner.
4. If an alarm cannot be installed in the middle of a ceiling, install it at a distance of 20 inches (50 cm) away from the corners of the room.

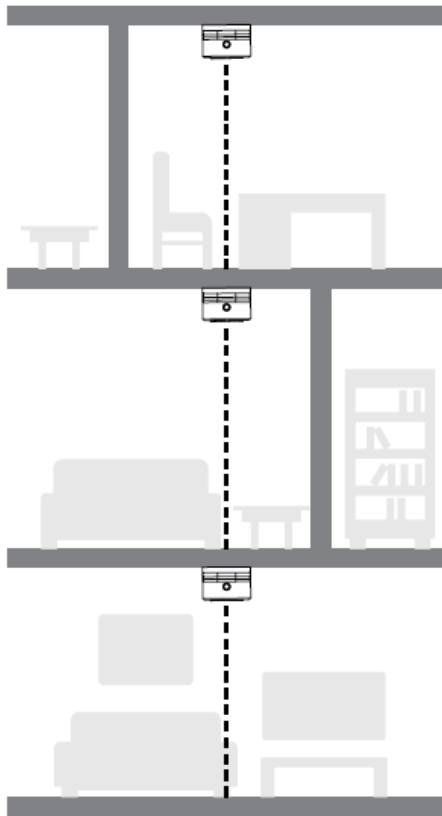
5. If an alarm is installed onto a wall, a distance of 4-12 inches (10-30 cm) should be kept below the ceiling.
6. If the length of a room or hall is beyond 30 feet (900 cm), several alarms should be installed in the same room.
7. When the wall or ceiling is angled, the alarm needs to be installed within 3 feet (90 cm) of the highest wall or ceiling point (measured horizontally) in the room.



- ① CEILING
- ② SIDEWALL
- ③ 20" (50 cm) MINIMUM
- ④ 4" (10 cm) MINIMUM
- ⑤ 12" (30 cm) MAXIMUM
- ⑥ BEST HERE
- ⑦ DEAD AIR SPACE
- ⑧ NEVER HERE
- ⑨ ACCEPTABLE HERE
- ⑩ NOT IN THIS AREA
- ⑪ ANYWHERE IN THIS AREA
- ⑫ 4" (10 cm)
- ⑬ 3 ft (90 cm)

8. In multi-level houses or apartments, install at least one wireless smoke alarm on each level and keep them installed in a straight vertical line (see diagram) with as few obstacles between each of the

interconnected alarms as possible to ensure optimal signal transmission.



Locations to Avoid:

1. Near large metal surfaces and/or bundles of wire.
2. Near fluorescent lights, amateur radios, electrical equipment, or other devices that may transmit an RF signal, as electronic “noise” may cause nuisance alarms.

WARNING!

1. THIS ALARM SHOULD BE INSTALLED BY A COMPETENT PERSON.
2. ALARMS SHOULD NOT BE USED AS A SUBSTITUTE FOR PROPER INSTALLATION, USE AND MAINTENANCE OF FUEL BURNING APPLIANCES INCLUDING APPROPRIATE VENTILATION AND EXHAUST SYSTEMS.
3. TO PREVENT INJURY, THIS DEVICE SHOULD BE SECURELY ATTACHED TO THE CEILING OR WALL IN ACCORDANCE WITH THE INSTALLATION INSTRUCTIONS.
4. BATTERIES SHOULD NOT BE EXPOSED TO EXCESSIVE HEAT SUCH AS DIRECT SUNLIGHT, FIRE, ETC.

Installation Method

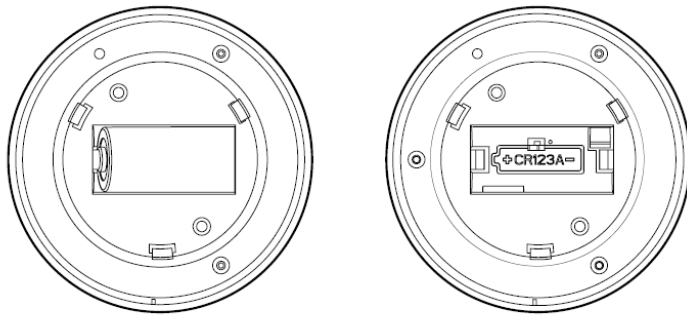
NOTE: Before installation, it is recommended to test the interconnected alarms in the rooms where you intend to install them to ensure that they are within transmission range and that nothing will interfere with their communication.

1. Use the mounting bracket to mark the screw holes on the ceiling or the wall.
2. Drill holes at the 2 marks using an appropriately-sized drill bit. Insert the anchor plugs and screw the mounting bracket using the screws provided.
3. Attach the alarm to the mounting bracket and turn clockwise to lock the alarm.
4. Test the alarm according to the steps in the section “Alarm Test”.



Battery Replacement

1. To replace the battery, detach the smoke alarm from the mounting bracket by twisting counterclockwise.
2. Pull the battery removal tab to remove the battery, and then install a new battery, matching the correct polarity markings.
3. Test the alarm, and then mount the alarm onto the mounting bracket by twisting clockwise to lock the alarm.



LED Indicator and Audible Alarm

Status		LED indicator	Audible alarm	Action
Standby Mode		The LED flashes red once every 60 seconds.	None.	
Alarm Mode	Unit that detects smoke and initiates an alarm.	The LED flashes red 3 times every 4 seconds.	3 quick beeps every 4 seconds.	Dangerous smoke concentration is detected. Open nearby windows and doors, and immediately move to fresh air.
	All other interconnected units in the network.	The LED flashes red and green 3 times sequentially every 4 seconds.	3 quick beeps every 4 seconds.	Dangerous smoke concentration is detected by the initiating unit in the network. Please find the initiating unit and take action.
		The LED flashes red 4 times, then the LED flashes green once every 5.8 seconds.	4 quick beeps repeating every 5.8 seconds.	Dangerous CO concentration is detected by the initiating unit, and has reached the alarm status. Please find the initiating unit and take action.
	Unit that detects smoke and initiates an alarm.	The LED flashes green once every second for 5 seconds.	None.	Alarm cancellation: When the smoke concentration level drops below the alarm threshold, the alarm signal will stop. Then, the alarm goes back to the standby

				mode.
Test	Test a single unit.	The LED flashes red 3 times every 4 seconds.	3 quick beeps every 4 seconds.	Press the test/silence button.
	Test all interconnected units.	The LED indicator flashes red rapidly.	Continuous beeping until you release the test/silence button.	Initiating unit. Hold down the test/silence button on one unit in the network.
		The LED flashes red and green sequentially.		Other interconnected alarms in the network.
Silence Mode		Red LED flashes once every 5 seconds.	None.	After 9 minutes, the unit will exit silence mode.
Low Battery		Red LED flashes once every 60 seconds.	1 beep every 60 seconds.	Each alarm gives an independent warning.
Malfunction		Red LED flashes twice every 40 seconds.	2 beeps every 40 seconds.	Each alarm gives an independent warning.

Alarm Mode

The AEGISLINK wireless interlinked alarms can be interconnected such that any unit that senses danger will cause all other units in the interconnected network to alarm.

1. If the Initiating Unit Is Triggered by Smoke:

When one smoke alarm is triggered in the interconnected network, the unit will beep 3 times, paired with the LED that flashes red every 4 seconds. Any other interlinked units will follow suit—they will beep 3 times every 4 seconds, paired with the LED flashing red and green in succession.

2. If the Initiating Unit Is Triggered by CO:

When one CO alarm is triggered in the interconnected network, the unit will beep 4 times every 5.8 seconds, paired with the LED flashing red. Any other interlinked units in the network will follow suit—they will beep 4 times every 5.8 seconds, paired with the LED that flashes red 4 times first, followed by the LED that flashes green once with every beep. When the CO concentration level drops below the

alarm threshold, the alarm will cease.

NOTES

- *When one unit is triggered, other interconnected units will sound. If the smoke alarm and CO alarm are triggered in the network at the same time, the alarm signal of the smoke alarm will take priority over that of the CO alarm.*
- *This alarm has a relay function that extends the wireless interconnected network for wide detection coverage.*

Silence Mode

If you press the silence button during an alarm state, the unit will be in the silence mode for 9 minutes. During the silence mode, the LED will flash red once every 5 seconds. The alarm will enter the normal mode after 9 minutes.

NOTES

- *You can silence all interconnected units by pressing the test/silence button on one of the units. If one unit is still alarming, it is the initiating unit (the unit that detected danger); to silence all interlinked units, you must also press the test/silence button on the initiating unit.*
- *While interconnected, the initiating unit cannot be triggered again during the 9-minute silence duration. However, all other interconnected units can be triggered again if they detect danger during the silence mode.*

Technical Specifications

Power Supply	Replaceable 3 V CR123A lithium battery
Operating Life	10 years
Battery Life	5 years
Sensor Type	Photoelectric
Safety Standard	UL 217
Operating Ambient	40–100 °F (4.4–37.8°C)

Temperature	
Operating Relative Humidity	$\leq 85\%$ (non-condensing)
Alarm Loudness	≥ 85 dB at 10 ft (3 m) @ 3.2 ± 0.3 kHz pulsing alarm
Silence Duration	About 9 minutes
Operating Frequency	868 MHz
Maximum Number of Interconnected Units	24 wireless units (only compatible with AEGISLINK wireless alarms)
Transmission Range	Over 820 ft (250 m) in open air

NOTES

- *Battery life is calculated on the current ratings in the standby mode with weekly testings. If its operation mode changes to an alarming condition, the battery life will be decreased accordingly.*
- *The smoke alarm functions between 40 and 100 °F (4.4 and 37.8 °C). Prolonged exposure to temperatures outside of this range can reduce battery life and affect accuracy. We do not recommend operating the device outside of this range.*

Maintenance

To keep your smoke alarm in good working order, follow these simple steps:

1. Verify the unit's alarm sound and indicator are working properly by testing the unit once a week.
2. As a minimum your smoke alarm should be cleaned once every 3 months: Remove the unit from the ceiling and clean the alarm cover and vents with your vacuum cleaner fitted with the soft brush attachment to remove dust and dirt.

3. Never use detergents or other solvents to clean the unit.
4. Avoid spraying air fresheners, hair spray or other aerosols near the alarm.
5. Do not paint the unit. Paint will seal the vents and interfere with the sensor's ability to detect fire.
6. Never attempt to disassemble the unit or clean inside. Doing so will void your warranty.
7. When removed, place the smoke alarm back in its proper location as soon as possible, to assure continuous protection from fire.
8. When household cleaning supplies or similar contaminants are used, the area should be ventilated.

Troubleshooting

PROBLEM	SOLUTION
Your smoke alarm does not sound during testing.	• Please ensure the battery is properly installed in the alarm. • Make sure you push the test/silence button firmly. • Check the installation positioning. The wireless signal might be blocked or out of range.
False alarms triggered intermittently or when residents are cooking, taking showers, etc.	• Check the location of your smoke alarm (see "Installation Positioning"). • Clean the smoke alarm (see "Maintenance").
The LED flashes red and the alarm sounds one beep every 60 seconds.	The battery is low. Replace the unit immediately.
The LED flashes red and the alarm sounds two beeps every 40 seconds.	The alarm is malfunctioning. Please clean your smoke alarm and see if it is working normally. If not, replace the device immediately.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that 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 to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance 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.

WARNING:

The distance between user and device should be no less than 20cm.

Environmental Protection

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with Local Authority or retailer for recycling advice.



Manufacturer and Service Information

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