onGard

garland®

Photoelectric Smoke Alarm with Hush User Guide

240V AC, 50Hz, 15mA max, 9V back up, single or multiple station (18 units maximum)

Model: **OG20, OG20LL**

ACTIVFIRE™ LISTED

ATTENTION: Please take a few minutes to thoroughly read this user guide which should be saved for future reference and passed on to any subsequent owner.

09/18

Contents of This User Guide

Thank you for purchasing this smoke alarm. It is an important part of your family's home safety plan. You can trust **Garland OnGard** to provide the highest quality safety products.

Please take a few minutes to thoroughly read this user guide, and save it for future reference. Teach children how to respond to the alarms, and that they should never play with the unit.

If you have any enquiries regarding this product please visit our website: www.garlandcables.com.au

1. Product Features

Model **OG20** / **OG20LL** is powered from a 240V AC supply, and has a DC battery back-up source. AC/DC smoke alarms offer added protection in the event of a power failure. Unique power connector prevents interconnecting with incompatible smoke alarms, CO alarms, heat alarms, or security systems. The smoke alarm can be interconnected with up to 17 other **Garland OnGard** models as set out in Section 2 – Product Specifications. Do not connect to any other type or model of smoke, CO, or heat alarm.

- Hush quiets unwanted alarms for up to 9 minutes
- Alarm memory identifies which alarm has activated
- Optional use tamper-resistant feature serves as a safeguard against tampering
- The smoke alarm will sound a short beep about once every 40 seconds if the battery is low
- Multi-purpose green and red LEDs indicate that the smoke alarm is connected to the AC supply, is working normally, or is in alarm
- Loud alarm sounder – 85 dB
- Test button checks smoke alarm operation

⚠ WARNING! REMOVAL OF SMOKE ALARM BATTERY AND DISCONNECTING OR LOSS OF AC POWER WILL RENDER THIS UNIT INOPERATIVE.

DO NOT TRY TO REPAIR THIS SMOKE ALARM YOURSELF.

2. Product Specifications

Model	**OG20, OG20LL**
Electrical Rating	240V AC 50HZ, DC battery back up (9V battery), **OG20** - 9V battery, **OG20LL** - 10 Year Lithium battery.
Sensor	Photoelectric Smoke Sensor
Interconnecting Smoke and Heat Alarms	Up to any combination of 17 other alarm models. Compatible Models include: **OG10, OG20, OG20LL, OG30**.
Operating Temperature	0°C to 40°C
Operating Humidity	Up to 93% Humidity (Non-Condensing)
Lound alarm	85 decibels at 3 metres

Model OG20LL has a lithium battery that is designed to last the life of the alarm.

3. Installation Instructions

This smoke alarm must only be wired to a 240VAC 50Hz sine wave current supply.

Laws on smoke alarms vary from state to state and you should be aware of what the requirements are in the state you live - for more information please refer to your local fire emergency services.

Recommended Locations

- In every room where someone sleeps with the door closed. The closed door may prevent an alarm located outside from waking the sleeper.
- In the immediate area of bedrooms and the exit path from all sleeping areas (**Figure 1A**).
- In stairways, as stairways act like chimneys for smoke and heat.
- In any room where large electrical appliances are operated (e.g. portable heaters or humidifiers).
- If a hallway or room is more than 9.1m long put alarms at both ends.
- For maximum household protection see **Figure 1C**.

Things to Consider:

For Ceiling Mounting:

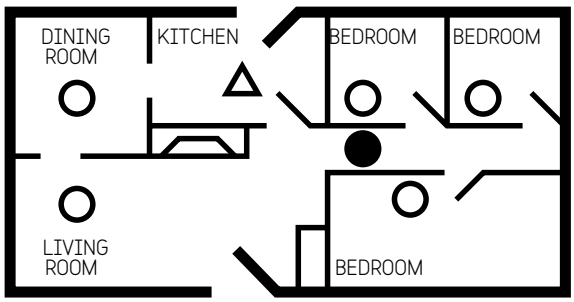
Smoke from a fire will rise to the ceiling and spread horizontally. Mounting the smoke alarm in the centre of the ceiling places it closest to all points in the room.

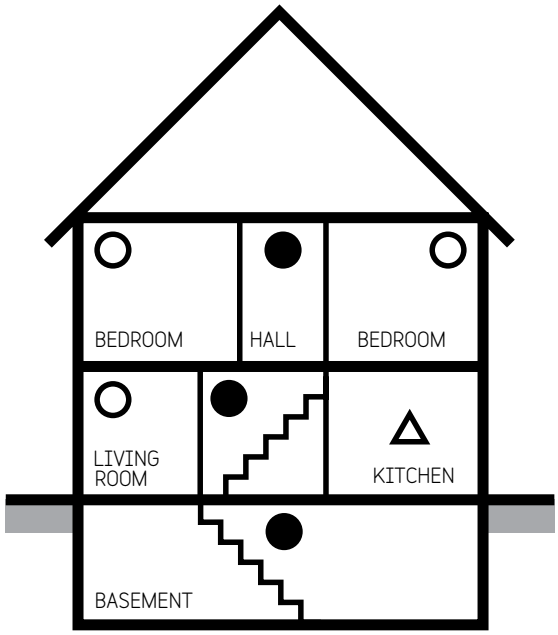
- When mounting an alarm on the ceiling, locate it at a minimum of 300mm from the side wall (**Figure 2A**).
- For sloped, peaked or cathedral ceilings the alarm should be placed between 500mm and 1500mm from the highest point of the ceiling (**Figure 2B**).
- Smoke alarms in rooms with ceiling slopes greater than 1m in 8m horizontally, should be located on the high side of the room (**Figure 2B**).

For Wall Mounting:

- When mounting the alarm on the wall, use an interior wall with the top edge of the alarm at a minimum of 100mm and a maximum of 600mm below the ceiling (**Figure 2A**).

3. Installation Instructions





Smoke Alarms for Minimum Protection

Smoke Alarms for Additional Protection

Ionisation Type Smoke Alarm with Alarm Silencer (Hush) or Photoelectric Type or Heat Alarm

SINGLE FLOOR PLAN

FIGURE 1A

MULTIPLE FLOOR PLAN

FIGURE 1B

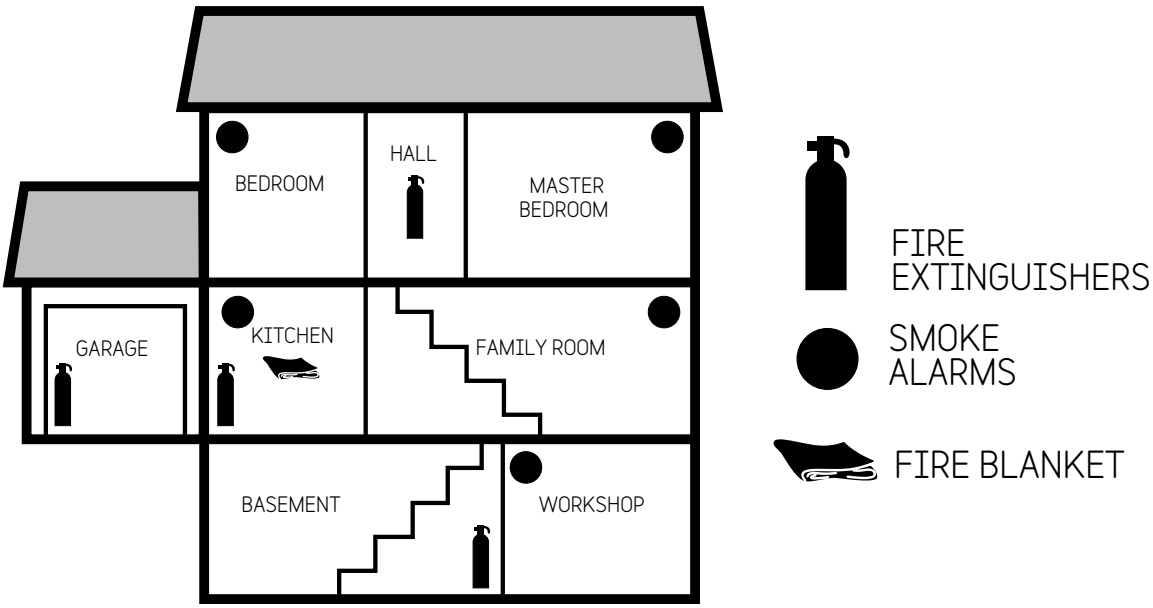


FIGURE 1C TOTAL HOME PROTECTION

3. Installation Instructions

FIGURE 2A

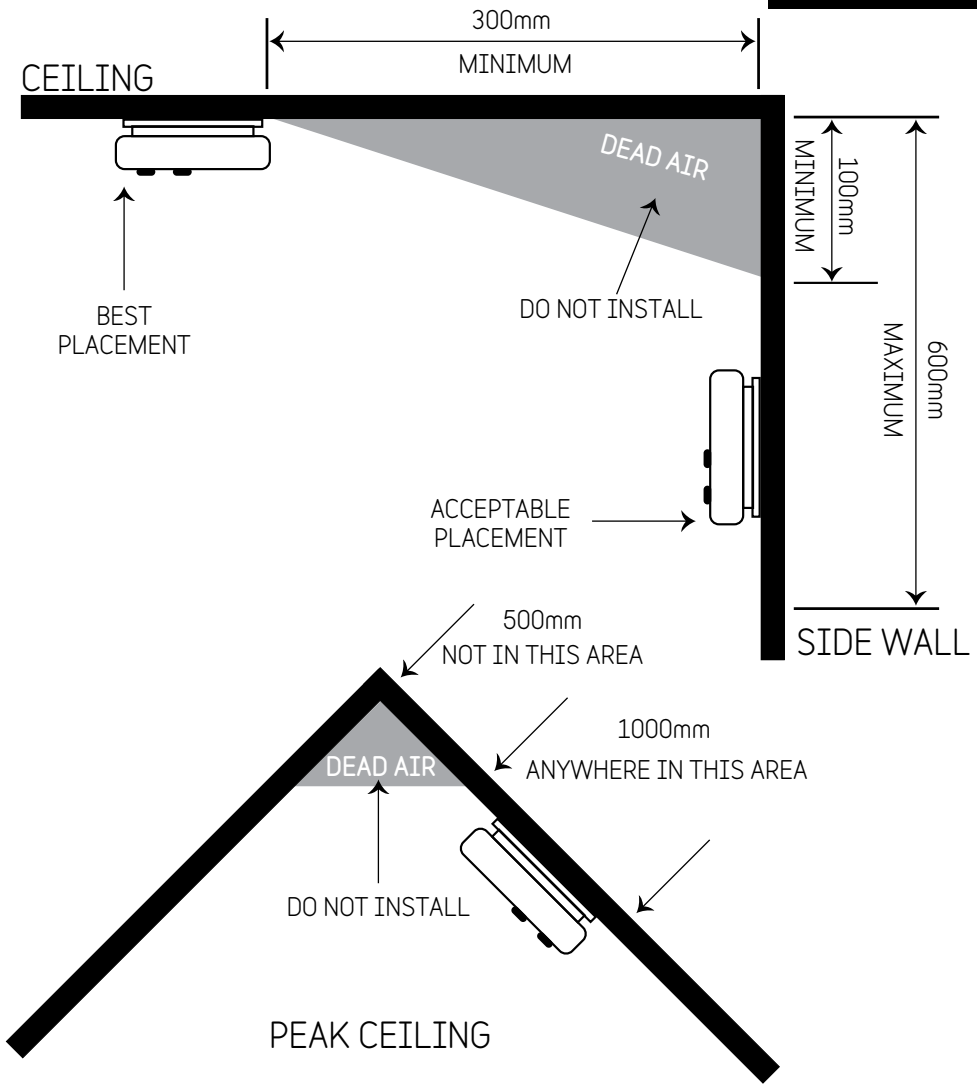
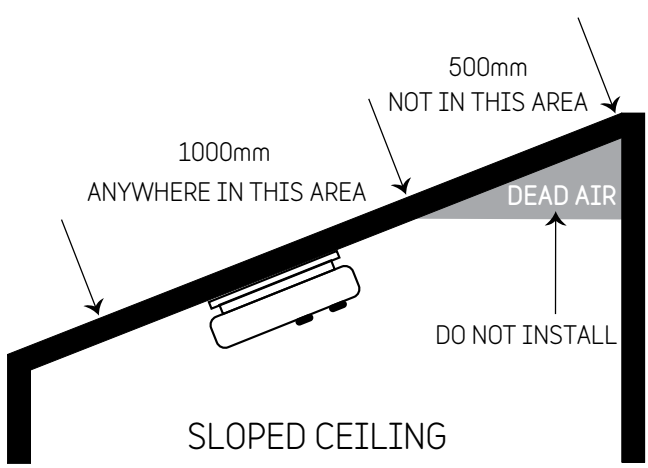


FIGURE 2B



Smoke alarm should be located between 500mm and 1500mm of the highest point.

3. Installation Instructions

Mobile Home Installation:

For Well Insulated Mobile Homes
Install smoke alarms as recommended on the previous pages.

In mobile homes that are not well insulated 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.
For Poorly Insulated Mobile Homes
Install the smoke alarm on an inside wall with the top edge of the alarm at a minimum of 100mm and a maximum of 600mm below the ceiling (**Figure 2A**).

For minimum protection, install at least one alarm close to the bedrooms. For additional protection, see **Figure 1A**.

⚠ Warning: test your smoke alarm operation after caravan or mobile home vehicle has been in storage, before each trip and at least once a week during use.

4. Locations To Avoid

To minimise nuisance alarms avoid these locations:

- Do not install within 900mm of the following: The door to a kitchen, or a bathroom that contains 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.
- Areas where curtains or other objects will block the sensor. Smoke must be able to reach the sensor to accurately detect conditions.
- Install at least 300mm away from fluorescent lights.
- Keep out of insect infested areas.
- Avoid excessively dusty, dirty or greasy areas.
- Do not install in areas where the temperature is colder than 0°C or hotter than 40°C.
- Do not install in areas where the relative humidity (RH) is greater than 93%.
- If a kitchen alarm is desired, it should have an ionisation alarm silencer feature or be a photoelectric alarm or heat alarm.
- Do not place in the garage.

4. Locations To Avoid

- Avoid dead air spaces such as the peak of an "A" frame ceiling. "Dead Air" at the top may prevent smoke from reaching the alarm in time to provide early warning. Refer to **Figure 2A** and **2B**.

N.B. - 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.

5. Wiring Instructions

⚠ DANGER: ELECTRICAL SHOCK HAZARD. Turn off power at the main fuse box or circuit breaker by removing the fuse or switching the circuit breaker to the OFF position and securing it. An all-pole mains switch with a contact separation of at least 3mm in each pole shall be incorporated in the electrical installation of the building.

⚠ WARNING: THIS SMOKE ALARM MUST BE INSTALLED BY QUALIFIED (LICENSED) ELECTRICIANS ONLY.

Wiring Requirements

- This smoke alarm should be installed with an AS/NZS Wiring Rules approved junction box. All connections must be installed by a qualified electrician and be in accordance with the relevant requirements of the AS/NZS Wiring Rules AS3000 Standards.
- The appropriate power source is 240VAC 50Hz continuous single phase sine wave current supplied from a non-switchable circuit which is not protected by a RCD.
- ⚠ **WARNING:** This alarm cannot be operated from power derived from a square wave or modified square wave inverter. These type of inverters are sometimes used to supply power to the structure in off grid installations, such as solar or wind derived power sources. These power sources produce high peak voltages that will damage the alarm.

Wiring instructions for AC harness

⚠ Caution! Turn off the main power to the circuit before wiring the alarm.

- For alarms that are used as single station, DO NOT CONNECT THE RED WIRE TO ANYTHING. Leave the red wire insulating cap in place to make certain that the red wire cannot contact any metal parts or the electrical box.

5. Wiring Instructions

- When alarms are interconnected, all interconnected units must be powered from a single circuit.
- A maximum of 18 **Garland OnGard** safety devices may be interconnected in a multiple station arrangement. The interconnect system should not exceed the interconnect limit of 12 smoke alarms and/or 18 alarms total (smoke, heat detector, etc.). (see below for details on interconnecting **Garland OnGard** devices).
- The maximum wire run distance between the first and last unit in an interconnected system is 307 meters. **Figure 3** illustrates interconnection wiring. Improper connection will result in damage to the alarm, failure to operate, or electrical shock hazard.
- Make certain alarms are wired to a continuous (non-switched) final sub-circuit.

Note: Use approved listed Australian Standards cable 1.0mm² TPS or larger as required by local codes.

FIGURE 3 "INTERCONNECT WIRING DIAGRAM"

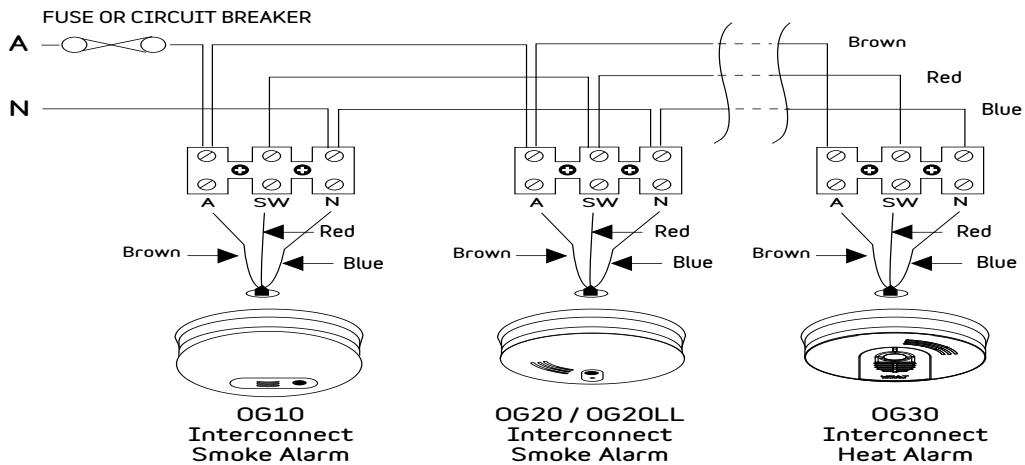
ALARM HARNESS ---------- CONNECTED TO:

BROWN ---------- A (Hot Side of AC Line)

BULE ---------- N (Neutral Side of AC Line)

RED ---------- SW (Interconnect Lines (RED Wires) of Other Units in the Multiple Station Set up)

FIGURE 3



BATTERY INSTALLATION

See Battery replacement (section 10) for battery installation.

6. Mounting Instructions

⚠ CAUTION! THE BATTERY TAMPER BUTTON MUST BE HELD DOWN IN THE BATTERY COMPARTMENT BY THE BATTERY, TO ENSURE THE BATTERY DOOR WILL CLOSE, THE AC QUICK CONNECTOR WILL ATTACH TO THE ALARM, AND THE ALARM WILL ATTACH TO THE TRIM RING.

NOTE: PLEASE ENSURE THAT BATTERY IS INSTALLED PRIOR TO MOUNTING OF SMOKE ALARM.

A trim ring is provided on the back of the smoke alarm. This trim ring is removed by holding the trim ring and twisting the smoke alarm in the direction indicated by the turn to remove arrow. The trim ring is secured to the smoke alarm by a trim lever.

⚠ Caution! The cover is a sealed unit and has no removable serviceable parts! Do not tamper.

1. Secure a suitable junction box near the position of the smoke alarm, ensure the quick connect cable length is long enough to reach the junction box for termination to be made.
2. Connect active, neutral and switch line to the smoke alarm cable using the terminal connection block provided. Secure these terminals inside the junction box.
3. Punch out the suitable fixing holes on the trim ring and then pull the AC connector through the centre of the trim ring.
4. Secure the trim ring to the ceiling using the fixing holes provided. Connect the 9V battery (back up) into the battery compartment. Ensure the locks on the AC connector snap firmly into place. If the back up 9V battery is already loaded in the Battery compartment, pull out the battery pull tab.

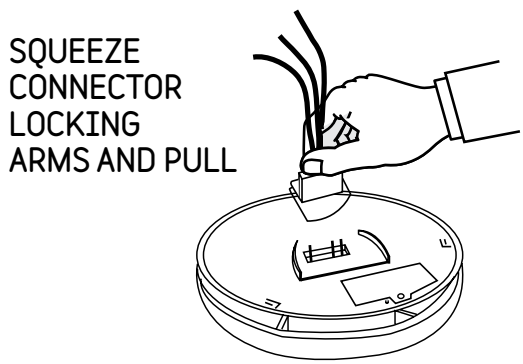


FIGURE 4A

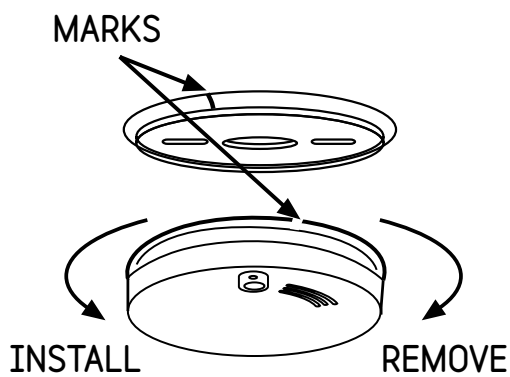


FIGURE 4B

6. Mounting Instructions

5. Now mount the smoke alarm onto the trim ring. Rotate the smoke alarm until the smoke alarm snaps firmly into place.

Note: Please ensure that battery is installed prior to mounting of smoke alarm.

7. Operation and Test

The smoke alarm is operating once AC power is applied, the new battery is installed and testing is complete. When the smoke alarm senses smoke, the horn will sound a loud (85 db) pulsating alarm (3 beeps repeat).

Red and Green LED indicators:

This smoke alarm features red and green LED indicators that can be seen through the Push-to-Test button or the LED lens above the test button.

The LEDs indicate the following:

GREEN

ON – AC power is present.

OFF – AC power is **not** present.

RED

Red LED Blinks once every 5 minutes and 20 seconds
– Mains power is present indicating normal operation.

Red LED Blinks once a second
– smoke alarm senses smoke and simultaneously sounds an audible alarm

Red LED Blinks once every 10 seconds
– smoke alarm is in hush mode.

Red LED is 3 rapid flashes at 40 second intervals
– indicates which alarm previously detected an alarm condition.

Red LED OFF
– DC power is not present.

OFF and unit is sounding alarm
– Another interconnected smoke alarm has sensed smoke and is signaling this alarm.

7. Operation and Test

Testing the smoke alarm

⚠ Warning: test each smoke alarm to be sure that each is installed correctly and is operating properly.

Stand at arm's length from the smoke alarm when testing. The alarm sounder is loud to alert you to an emergency and can be harmful to hearing.

Test the smoke alarm weekly and upon returning from holiday, or when the house has been unoccupied for several days.

Test all smoke alarms weekly by doing the following:

1. Check the Hush/Test button. If the green LED above the test button is ON, the smoke alarm is receiving AC power.

2. Firmly depress and hold the Hush/Test button for at least five (5) seconds. The smoke alarm will sound 3 long beeps, pause, 3 longs beeps, repeating for up to 10 seconds after the Hush/Test button is released. **NOTE:** If smoke alarms are interconnected, all smoke alarms should sound an alarm within three (3) seconds after any test button is pushed and the tested smoke alarm sounds.

3. If the smoke alarm does not sound, turn off the power to the smoke alarm circuit at the main distribution board and check the wiring. Retest the smoke alarm. If the smoke alarm does not sound, please refer to Section 9: Troubleshooting. If this doesn't work please contact your electrician.

⚠ Warning: 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.

8. Alarm Nuisance and HUSH

This alarm is designed to minimise nuisance alarms. Cigarette smoke will not normally cause the unit to alarm, unless the smoke is blown directly into the alarm. Combustion particles from cooking may set off the alarm if it is located too close to a cooking appliance. Large quantities of combustible particles are generated from spills or when broiling. Using the fan on a range hood which vents to the outside (non-recirculating type) will also help prevent nuisance alarms from occurring by removing these combustible products from the kitchen.

HUSH

If you know why the alarm is sounding, and you can verify that it is not a life threatening situation, you can push the button on the initiating unit (Red LED flashing every second) to silence the alarm for up to 10 minutes. If the smoke is not too dense, that unit, and all interconnected units will silence. After the Hush period, the smoke alarm will automatically reset and sound the alarm if particles of combustion are still present. You can use Hush repeatedly until the air has been cleared of the condition causing the alarm.

Note: Dense smoke will override Hush and sound a continuous alarm. If no fire is present, check to see if one of the reasons listed in Section 4. LOCATIONS TO AVOID may have caused the alarm. If a fire is discovered, get out and call the fire department.

- Pushing the button on the initiating smoke alarm will silence that alarm and all compatible interconnected units.
- Pushing the button on any hard-wire smoke alarm will do nothing to silence an interconnected smoke alarm.

9. Troubleshooting

PROBLEM	SOLUTION
Smoke alarm does not sound when tested. **NOTE:** Push and hold test button for at least five (5) seconds while testing!	1. Check that AC power is turned on. Green LED should be illuminated. 2. Turn off power. Remove smoke alarm from mounting plate and: a. check that connector plug is securely attached. b. Check that battery is installed correctly. 3. Clean smoke alarm.
Smoke alarm beeps about once every 40 seconds	Turn off AC power, replace battery and Clean alarm. See **"Section 10 Battery Replacement"** and **"Section 11 Cleaning Your Alarm"**.
Smoke alarm sounds unwanted alarms when residents are cooking, taking showers, etc.	1. Hire an electrician to move smoke alarm to a new location. See **"Section 3 Installation Instructions"** and **"Section 4 Locations to Avoid"**.
Interconnected smoke alarms do not sound when system is tested.	1. Press and hold button for at least five (5) seconds after the initiating unit sounds. 2. Turn off AC power or circuit breaker and check the interconnect wiring. See **"Section 5 Wiring instructions"**.
3 chirps every 40 seconds	1. Before 10 years of operation: unit is in fault mode. Contact customer service. 2. After 10 years of operation: end of life warning. Alarm must be replaced (REPLACE IMMEDIATELY!)

NOTE: Visit our website: www.garlandcables.com.au, if your alarm does not seem to operate correctly.

10. Battery Replacement

Alarm Removal

To replace the battery, remove the alarm from the trim ring by rotating the alarm in the direction of the **"OFF"** arrow on the cover (See Section 6, **Figure 4B**). To disconnect the AC power harness, squeeze the locking arms on the sides of the Quick Connector while pulling the connector away from the bottom of the alarm (See Section 6, **Figure 4A**).

Battery Installation and Replacement:

To replace or install the battery you must first remove the alarm from the trim ring by following the ALARM REMOVAL instructions at the beginning of this section. After the alarm has been removed you can open the battery door and install or replace the battery. Install the battery to the battery terminal clip of the smoke alarm. When installing the battery, press the battery lever down into the battery compartment and install the battery. (See **Figure 5**).

⚠ Caution! If the battery compartment is closed without a battery, the red battery tamper will prevent the smoke alarm from attaching to the trim ring.

NOTE: Constant exposure to extreme temperatures and humidity may affect battery life.

Replace battery at least once a year or immediately when the low battery signal sounds once every 40 seconds, even though the smoke alarm is receiving AC power.

USE ONLY THE FOLLOWING 9VOLT BATTERIES FOR SMOKE ALARM REPLACEMENT:

Alkaline type: ENERGIZER 522; DURACELL MN1604 or MX1604

Lithium type: FDK CP-V9Ju; ULTRALIFE U9VL-J

Note: regular weekly testing is recommended

⚠ Warning! Use only the batteries specified. Use of different batteries may have a detrimental effect on the alarm. Exposure to temperature extremes and / or high humidity may reduce battery life.

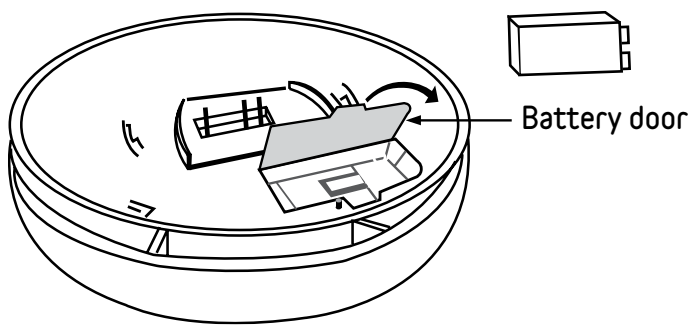


FIGURE 5

11. Cleaning Your Alarm

YOUR ALARM SHOULD BE CLEANED AT LEAST ONCE A YEAR

To clean your alarm, remove it from the mounting bracket as outlined in Section 10 Battery Replacement or Section 6, **Figure 4A**. You can clean the interior of your alarm (sensing chamber) by using compressed air or a vacuum cleaner hose and blowing or vacuuming through the openings around the temperature sensor located on the top of the alarm. The outside of the alarm can be wiped with a damp cloth.

After cleaning, reinstall your alarm and test your alarm by using the test button. If cleaning does not restore the alarm to normal operation the alarm should be replaced.

After cleaning, reinstall your alarm. Test your alarm by using the test button and check that the green LED is on.

12. Limitations Of Smoke Alarms

⚠ Warning! Smoke alarms are devices that can provide early warning of possible fires; however, alarms have sensing limitations.

Ionisation sensing alarms may detect invisible fire particles (associated with fast flaming fires) sooner than photoelectric alarms. Photoelectric sensing alarms may detect visible fire particles (associated with slow smouldering fires) sooner than ionisation alarms.

Home fires develop in different ways and are often unpredictable. For maximum protection, subject to applicable legal requirements in each State and Territory, **Garlan OnGard** recommends that both ionisation and photoelectric alarms be installed.

Loose batteries, where fitted, must be of the specified type, in good condition and installed properly. AC only powered alarms will not operate if AC power has been cut off such as by an electrical fire, an open fuse or loss of mains supply. All alarms must be tested regularly to make sure the batteries and the alarm circuits are in good operating condition.

Life safety from fire in residential occupancies is based primarily on early notification to occupants of the need to escape, followed by the appropriate egress actions by those occupants. If the alarm is located outside the sleeping room or on a different floor, it may not wake up a sound sleeper. The use of alcohol or drugs may also impair one's ability to hear the smoke alarm. For maximum protection, a smoke alarm should be installed in each sleeping area on every level of a

12. Limitations Of Smoke Alarms

home. Smoke alarms cannot provide an alarm if smoke does not reach the unit. Therefore, smoke alarms may not sense fires starting in chimneys, walls, on roofs, on the other side of a closed door or on a different floor. Hearing impaired occupiers should consider fitting additional strobe accessories to give a visual alarm.

Although smoke alarms can help save lives by providing an early warning of a fire, they do not prevent property damage. Home owners and renters should have adequate insurance to protect their property.

If after reviewing this manual you feel that your smoke alarm is defective in any way, do not tamper with the unit. Refer to Section 15 Warranty and Contact Details.

13. Good Safety Habits

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.
- Familiarise everyone with the sound of the 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 alarms may not awaken all sleeping individuals. 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.

14. What To Do When The Alarm Sounds

- Leave immediately by your escape plan. Every second counts, so don't waste time getting dressed or picking up valuables.
- 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.
- Stay close to the floor if the air is smoky. Breathe shallowly through a cloth, wet if possible.
- Once outside, go to your selected meeting place and make sure everyone is there.
- Call the fire department from your neighbour's home - not from yours!
- 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.

For instance:

a) smoking in bed

b) leaving children home alone

c) cleaning with flammable liquids, such as gasoline

15. Warranty & Contact Details

TEN YEAR WARRANTY

Warranty

Garland warrants to the original consumer purchaser (Customer) that each new smoke alarm will be free from defects in materials and workmanship under normal use for a period of 10 years from the date of purchase (Warranty Period). To the extent permitted by law, **Garland** agrees to repair or replace (at our discretion) any defective product, within the Warranty Period, on presentation of proof of purchase.

Australia warranty claims:

1. These Terms outline how the Company warrants our products for all Products purchased after 1 January 2011.
2. **Garland** warrants that all **Garland** Products (excluding Third Party Product) will operate in accordance with their published specifications for the duration of the Warranty Period.
3. Where the sale of Products is to electrical wholesale customers of **Garland**, no additional warranties are to be provided on behalf of **Garland** to end consumers.
4. The Australian Consumer Law (ACL) protects consumers by giving them certain rights relating to the purchase of goods and services.
5. If the Customer is a 'consumer' as the term is defined in the ACL:
   - **5.1** **Garland**'s Products come within guarantees that cannot be excluded under the ACL;
   - **5.2** The Customer is entitled to a replacement or refund for major failure and for compensation for other reasonably foreseeable loss or damage;
   - **5.3** The Customer is entitled to have the Products repaired or replaced if the Products fail to be of acceptable quality and the failure does not amount to a major failure.
6. In addition, the Customer must ensure that terms of a like nature are contained in any contract of sale or onsale of the Products to a Third Party purchaser.
7. The Customer indemnifies and holds **Garland** harmless from any claims or demands which are made as a result of their failure to comply with the requirements of this clause.
8. If the Customer makes a claim during the Warranty Period it will be handled as follows:
   - **(a)** In the case of **Garland** Products, where there is a defect in such Products, **Garland** will replace or repair the Products (at its discretion and cost).
   - **(b)** **Garland** will not be responsible for the cost of retrieving, removing, reinstalling, or retesting the Products to and from the location where the Products are located.
   - **(c)** All warranties for any Products repaired or replaced during the Warranty Period will expire at the same time as the original warranty of the Products that were repaired or replaced.

15. Warranty & Contact Details

Exclusions

Subject to non-excludable laws, this warranty does not cover:

- normal wear and tear to the product or parts
- batteries or other consumables included with this product (excluding sealed non replaceable battery models)
- damage to the product caused by or at the direction of the Customer, including through accident, misuse, abuse, lack of reasonable care, tampering or repair by uncertified or non-authorised personnel.
- any product that has not been installed, operated or maintained in accordance with the manual or operating instructions provided with the product
- any damage caused by improper power input or improper cable connection
- any indirect, special or consequential loss or damage of any kind

Garland's total liability in relation to the products shall not exceed the purchase price paid for the products, regardless of the basis of the claim and whether or not arising due to or in connection with the supply.

To make a claim

If a defect in the product appears within the Warranty Period, you are entitled to submit a warranty claim by first visiting the **Garland** website address below and filling out the Return Form.
On contacting **Garland** and providing the proof of purchase (The original number and date of invoice) you will be issued a Goods Return Authorisation (GRA) prior to you returning the product.
When returning the product please ensure a copy of the GRA is included and the product is properly packaged so that no damage occurs in transit. Any postage and packaging expenses required to return the product to **Garland** will be at your cost, but you may be entitled to a refund of those postage and packaging expenses where there is a major or minor problem with the products which entitles you to a repair or replacement.

If **Garland** elects to repair the product, please note that the products presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the products, where such parts are equivalent quality to the original.

garland®

onGard

This warranty is provided by:
Madison Technologies
149 Beaconsfield St, Silverwater NSW 2128
1800 66 99 99
www.garlandcables.com.au