COMPLETE SMOKE ALARM TEST

- All smoke alarms should be tested on a monthly basis
- To accurately test the integrity of the smoke sensing chamber use a suitable aerosol tester Before testing make sure that the smoke alarm is connected to the AC power supply

and the Green LED is ON. ALARM TESTING LED Unit Test Method Sound Pattern LED Sequence Colou 3 beeps in 4 Single Alarm Push the Hush 3 flashes every 4 sec seconds (1 Cycle Unit Test (RF Test button fo RED LED (1 Cycle) and repeats and repeats unit Wired Units 2-3 Seconds ntil hutton is release button is released ALARM AND NETWORK TEST LED Sound Pattern Unit Test Method LED Sequence Colou 3 beeps in 4 RED LED Push the econds (1 cycle) 3 flashes everv 4 sec RF or Wired HUSH/TEST and repeats until (1 Cycle) and repeats Unit button for 10 BLUE unit button is ntil button is released seconds LED released 3 beeps in 2 Flashes once every 4 Other seconds (1 cvcle) BLUE seconds and stays N/A and repeats until Interconnecte LED continuously ON for **RF** Units unit hutton is 3 min released 3 beeps in 2 Other Wired seconds (1 cycle) N/A and repeats until N/A N/A RF Units unit button is released

NOTE

After the above test with the "HUSH/TEST" button is completed the alarm will be desensitized for about 20 minutes

■ Wait for **2**0 minutes before doing the SMOKE AEROSOL TEST.

WARNING

- Do not apply excessive force on the "HUSH/TEST" button this may damage the smoke alarm and may void the warranty.
- Never use an open flame of any kind to test your alarm. You may damage the alarm or set fire to your home. The built-in test switch enables the testing of all electronic components and the hor

TABLE 7

FACTORY RESET

This section will explain how to perform a general reset of a smoke alarm, which starts the unit over as if it were powered up for the first time. This reset will also remove a unit from an existing network.

Follow the steps in the table below if one of these conditions occurs:

If you have problems or become confused during initial RF Interconnect enrolment. If a unit does not perform as stated in this document.

- If you decide to remove a unit from your RF Interconnect network and enrol it in another RF Interconnect Network (at a friend or family's location for example)
- Note: If a unit has reached its end of life or has a low battery as stated on Table 5. a Reset will not be required. Simply remove the unit from the mounting bracket which will disconnect the battery

Steps	User Input	Visual Indication	
Step 1	Ensure the cap is removed and alarm unit is clipped to the mounting base (Fig. 4 & 5).	N/A	
Step 2	Attach all units to the mounting base, which will turn activate the battery (Fig.4)	RED LED flashes (3 times in 3 Seconds).	
Step 3	3 Hold down the Network button for 20 flashes of BLUE LED and release. BLUE light will Flash 3 more times and go OFF.		
The unit has now been reset to Factory Settings and is ready to be paired again.			
TABLE 8			

TROUBLESHOOTING

ELECTROMAGNETIC INTERFERENCE (EMI)

- Smoke alarms are designed to filter external EMI signals. But some forms of EMI can still affect the performance.
- Avoid installing a smoke alarm too close to an electrical noise source (< 1m)</p>
- Install the smoke alarm on a separate circuit to all other electrical circuits.
 Common sources of EMI which may cause the smoke alarm to malfunction include:
- Fluorescent luminaires, LED Downlights, CFL lamps, Security Lights, Solar Inverters, A/C Compressors (Spikes during 0N/0FF).
- Heat lamps, air conditioners, ceiling fans (Electrical noise & Spike due to heavy inductive loads at ON/OFF).
- Note: Some installations may require an inline EMI filter if the EMI source cannot be identified (Legrand EMI Filter Cat. No: 643093 is available).

GOOD SAFETY HABITS

elop and practice a plan of escape.

- Develop and practice a plan or 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 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.
- Familiarize everyone with the sound of the smoke alarm and train them to leave your home when Instance of the second s
- 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 that they know what to do.

LIMITATIONS OF SMOKE ALARMS

- Smoke alarms cannot provide an alarm if smoke does not reach the alarm. 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.
- If the alarm is located outside the bedrooms or on a different floor, it may not wake up sound. sleepers. A smoke alarm in the bedroom is therefore recommended as additional protection. Smoke alarms have been significant in saving lives in many parts of the world. However,
- U.S. Government research indicates that they may not give early enough warning in up to 35% of fires. Hence, the use of this product does not act as a substitute for basic prevention.
- Although smoke alarms can help save lives by providing early warnings of a fire, they are not a subsitute for an insurance policy.
 This smoke alarm alone will not alert the hearing impaired. Use special-purpose smoke
- alarm with lights or vibrating devices, for those hard of hearing.

MAINTENANCE

The smoke alarm is virtually maintenance free. However, if there is any dust or lint build-up around the smoke alarm a vacuum cleaner may be used to clean the exterior of the unit (including slots on the cover). We recommend using a vacuum cleaner to clean the exterior of the unit every six months. DO NOT IMMERSE IN OR SPRAY WITH HOUSEHOLD CLEANERS. If the unit gives a chirping sound once every minute, it indicates that the battery is flat and the unit needs to be replaced

FALSE ALARMING

- This smoke alarm is designed to minimise false alarms. If the alarm does sound, check for a fire before silencing the alarm. If a fire is discovered, escape quickly and call the Fire Brigade.
- Dust generated on building construction sites can cause false alarms. The plastic bag is
- intended to protect the sensor module during the building construction phase.
 Cigarette smoking will not normally set off the alarm unless smoke is blown directly into the alarm. This Smoke alarm has a HUSH button that can be used if combustion particles from cooking
- sets off the alarm
- False alarm can be prevented by pressing the HUSH button on triggered alarm to desensitize

PRODUCT NOTES

This product must be installed by a licensed electrician. 2. For indoor use only. 3. This product should ot be installed in areas exposed to constant vibration, temperature fluctuations, or areas of high humidity. . This product contains no serviceable parts and no attempt should be made to repair this product. If the rans product of should be discarded. **5.** Severe electromagnetic interference from other products may cause alfunction of this product. **6.** This product is intended for domestic or similar uses. It is not suitable for use an environment heavily laden with dust. **7.** This product has a nominal 10 year design life from the date installation. If not powered by mains the lifetime will be reduced. 8. The date of commissioning mus e recorded on the product label when each unit is installed. The alarm should be replaced every 10 ears from the commissioning date. If commissioning date is not recorded on the unit, the 10 years will ommence from the date of manufacture. The date of manufacture is marked on every unit in the form yWww (Eq. 22W15 means 15th week of year 2022). 9. This product has been designed to operate in ambier repretatives: 0°C to 40°C. 10. This product is not suitable for marine environments such as areas subject to salt spray and/or mist. 11. This product is not suitable for installation in hazardous and/or corrosive areas. 12. This product has been designed for domestic or similar uses and is not suitable for commercial installation. 13. The material in this product may vary in colour from batch to batch. Colour matching from one batch to another cannot be guaranteed. 14. Electrical installations periodically receive transient over-voltages. This product has been designed to minimize the effect of such voltages on the connected equipment. It may not give full protection for extreme over voltage transients such as those resulting from a close lightning strike. 15. This notection for externe over votage transmission as those resulting informa close digitations and the second se operty in the form of registered designs, trademarks, and/or patents, Such intellectual property remains the erty of Legrand in all cases. 19. Legrand reserves the right to modify the specification of this produc

Warranty

- Legrand ("we or us") has given each purchaser who is a consumer ("you") a warranty against defects in its products.
- As a consumer, you are entitled to the benefit of the Warranty and should read and understand its terms. In addition, for the purposes of the Australian and New Zealand Consumer Laws, we note the following:
- Our contact details for the purpose of any claims made under the Warranty are below Any claim under the Warranty must be sent in writing to the following address:
- ΔUSTRALIA ONLY ΝΕΨ ΖΕΔΙ ΔΝΟ ΟΝΙ Υ

Legrand Australia Pty Ltd Nexus Industry Park Bldg 4, 43-47 Lyn Parade PRESTONS, NSW 2170 1300 369 777 sales.orders@legrand.com.au



If we accept your claim under the Warranty we will reimburse all your reasor hable expenses in making and pursuing the claim, including the cost of reimburse are your reasonable defective products returned in the ordinary course to us at the address above by post or other agreed means. Any such claim must be made within 14 days of your receiving notice of our acceptance of your claim and

0800 476 009

- include any necessary supporting documentation or invoices. As a consumer, you have rights under the Australian and New Zealand Consumer Laws and may have rights under other applicable laws which cannot be excluded, restricted or modified. Those
- rights are in addition to any rights you have under the Warranty. Legrand warrants this product for a period of 5 years from the date of purchase. Our goods (which we refer to in the Warranty as the Products) come with guarantees that cannot be excluded under the Australian and New Zealand Consumer Laws. You are entitled to a replacement or a refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.





FEATURES

- Designed for fast response to smouldering fires and to minimize false alarms.
- Built-in 10 year life lithium battery (Non-replaceable)
- Ceiling Mounting option.
- LED indicators for AC power, Battery status, Alarm and Network status. Test and Hush button, easy to use and silence unwanted alarms
- Up to 20 units can be paired on a single network.
- Wide smoke entry vents for early smoke detection.
- Sealed mesh protector over sensor chamber to prevent insect and dust contamination
- UV resistance to prevent discolouring.
- Electronics coated to prevent build up of heat and condensation caused by humidity
- and high temperatures. RF wireless interconnect for flexibility and cost effective installation which can be moved anywhere as required. Smoke Alarm Interface [Cat. No: 643086] also available.
- Houses a radio transmitter which triggers all interconnected smoke alarms wirelessly.
 Compliance with AS 3786:2014, ActivFire Certified.





MOUNTING INSTRUCTIONS



fia.5



Make sure toggle in this position in

order to clip in the unit

FLUSH MOUNT PHOTOELECTRIC SMOKE ALARM (CAT NO. 643089) MAINS POWERED, WIRED OR WIRELESS INTERCONNECTABLE WITH 10 YEAR LITHIUM BATTERY BACKUP

Legrand Reference	Mounting Type	Interconnect Type	Interd	with 643089
643088	Surface Mount	Wired & Wireless	1	Wired / Wireless
643090 /643085	Surface Mount	Wired		Wired only
643091	Surface Mount	Wireless		Wireless only
643092 /643087	Flush Mount (Ø 90 mm Cut-out)	Wired		Wired only
NSTALLATION D	ESIGN	TABLE 1		
egrand RF smoke ala ne of the existing wire	irm can be added to t ed smoke alarms wit	the existing wired Interco h an RF unit that is also	onnect n wired to	etwork. You must rep do this.
Concerstand your red (See location section Determine which al. Run cabling if requin Mount base in the re Note: The RF units r Commission and ins Test the installation EFER TO THE TAB	Quirements and decid h Fig. 6 for guidance) arms are appropriate red. equired position (See need to be paired befr stall (See commission dele BELOW TO UN	e from our range (See Le recommended location. ore the base is mounted ning and wiring sections	grand sr Fig. 6). on ceilir for guida	moke alarm installed noke Alarms list Tab Ig. ance) 5 TO INTERCONNE
	Unders	tand Installation Types		
Upgrade existing ins wireless units	tallation with	New installation with a wired and wireless	mix of s	New installation with only wired installation
 You can have a mixture of wired and RF units on the one installation (See wiring section below) Existing installation with 2 or more wired interconnect units to extend the network with RF units. At least one existing unit must be replaced with a wired RF unit (Either 643088 or 643089) All new smoke alarms must be RF units (643088, 643089, 643091) 		Install the RF versions required (643088, 643 643091)	where 089,	Install the wired interconnect versic where required (643090, 643092, 643085)
Note: A maximum of	20 smoke alarms ca	n be interconnected on c	one circu	iit.
TEPS TO INSTA		TABLE 2		
		nstallation Type		
Upgrade existing ins wireless units	tallation with	New installation with a of wired and wireles	a mix ss	New installation wi only wired installati
 Pair all additional I network. 	RF units to the	 Gather all RF alarms installed and complet pairing to network. 	to be e	 Hard wire 240V to
 After RF network setup is completed, clip units to mounted base and test. Remove existing smoke alarm and replace with a RF unit (either 643088 or 643089) If adding 240V RF versions - hard wire A & N to the new base. 		 After RF network setu is completed, clip unit mounted base and tes On 240V RF units, har wire A & N to new bas Connect interconnect to T on the new bass Note: RF only units (643) 	up ts to st. rd se. : wire es. 3091)	A & N Connect interconn wire to "I" on the new bases. Clip units to mounted base and test

TABLE 3

INTERNAL RF NETWORK SETUP

For easiest first-time setup, we recommend unpacking all units together on a desk, table or counter and using the steps in the following Table 4 below. If you prefer to install the alarms on the ceiling before connecting the units, attach all mounting brackets to the ceiling first and then start with step 2 in TABLE 4.

- 1. Ensure all units are powered by clipping the base to head of the smoke alarm (battery activation 2. Pair all RF units on the bench.
- 3. Validate RF network on the bench.
- Install base to ceiling if required and install smoke alarm.
 Validate installation.
- Definition of key terminology
- , continuous
- MASTER: This is the network master unit that is the key communicator with the other wireless units

SLAVE: The other wireless units that are to be paired to the MASTER unit

	User Input	Visual Indication	Time Limit	
Step 1	Attach all units to mounting base, which will activate the battery (fig.4)	RED Light flashes once, then 3 fast flashes	N/A	
Step 2	a. Choose one of the smoke alarm to be the MASTER. Hold down the Network button and count 6 to 8 flashes of the BLUE light then release.	Solid BLUE light	Master mode will timeout in 9 min.	
	b. Place the MASTER unit away from the others as the MASTER will need to be identified later in the process.			
Step 3	SLAVE joining Network: Hold the Network button and count 3 to 4 flashes of	Fast BLUE flashes indicates scanning for network.	Timeout in 9 min. If time- out occurs go back to step 2 and either use the same MASTER unit previously	
	the BLUE light then release to connect to other MASTER unit.	Slow BLUE flashes when connected to network.	selected or select any unit which is already part of the network to be the new MASTER unit.	
Step 4	Exit Pairing Mode: Go to the MASTER smoke alarm (the one in step 2) and hold down the Network button and count 2 to 3	Fast BLUE flashes on MASTER indicating network close.		
		BLUE flashes on SLAVE will turn OFF.	Pairing Mode can take up to 90 seconds to close.	
	flashes of the BLUE light then release.	NOTE: Do not operate smoke alarm until the master stops flashing.		
TABLE 4				

ADDING A SMOKE ALARM TO AN EXISTING RF NETWORK

- At some point, you might want to add another smoke alarm unit to your existing RF network for additional protection or to replace an old unit. To do so follow the steps from Table 4.
- NOTE: AFTER THIS SMOKE ALARM HAS REACHED THE END OF ITS LIFE, IT CAN BE RECYCLED AS E-WASTE.



INSTALLATION LOCATIONS

- These recommendations are for information only. Check specific state legislation in your area to
 ensure smoke alarms are correctly located according to local laws. Each state or territory may
 differ in building codes and regulations.
- Install at least one alarm for each separate sleeping area. Try to cover the exit path as the bedrooms are usually farthest from an exit. If there is more than one sleeping area, install additional alarms in each sleeping area in the immediate vicinity of bedrooms.
- Locate additional alarms to monitor any stairway because stairways act like chimneys for smoke and heat.
- Locate at least one alarm on every floor level.
- Locate an alarm in every room where electrical appliances are operated (i.e portable heaters or humidifiers)
- Smoke, heat, and other combustion products rise to the ceiling and spread horizontally. Mounting the alarm on the ceiling in the centre of the room places it closest to all points in the room. Ceiling mounting is preferred in ordinary residential construction.
- When mounting alarms on the ceiling locate it at least 300 mm away from the sidewall and 300 mm away from any corner.



- only be removed at the end of the building construction phase, when the smoke alarm is to be commissioned. The building construction phase includes sanding, painting preparation, painting, flooring, etc. Once removed keep the plastic bag away from babies and children to avoid the danger of suffocation and must be disposed safely. A maximum length of 300 meters of wire can be used to interconnect smoke alarms. Spacing
- A maximum length of 300 meters of wire can be used to interconnect smoke alarms. Spacing between interconnected smoke alarms must not exceed 30 meters. Minimum wire cross-section of 1.00mm² to be used.
- Wired interconnected smoke alarm must be connected to the same final sub-circuit.
 This is not required if connecting via RF.
- This is not required if connecting via RF.

 Do not use any wire that could later be confused with the normal house wires for the
- interconnect wire. For example Green/ Yellow, Earth wire. Do not connect AC power wired to the terminal marked "1" (Interconnect). This will damage
- the smoke alarm. Interconnect feature is only compatible with other Legrand smoke alarms. Refer to Table 1
- This unit will be damaged if interconnected with another brand of smoke alarm.
- Smoke alarm should be interconnected only within the confines of a single-family living unit. If smoke alarms are interconnected between different units, there may be excessive nuisance alarms and residents may not be aware that smoke alarms are being tested or that it is a nuisance alarm caused by cooking, etc.

Note: The smoke alarm should be installed on a separate circuit to minimize false triggering.

WARNING

- Connecting the interconnect terminal to any supply conductor will result in danger to the alarm and fail to operate and /or introduce a shock hazard and will void the warranty of the alarm.
- Under no circumstances must an insulation resistance test be carried out on a circuit to which a smoke alarm is connected. The test could cause irreparable damage to the internal circuitry of the smoke alarm and make it inoperative. The warranty would be void under such circumstances.
- If no alarm sounds, check wiring, fuses, or circuit breaker and make sure that the alarm is connected to a continuous final sub-circuit.

La legrand®

OPERATING MODES

GRE Solid OF

N/

N/

N/

N/

Step

Step

Step

The smoke alarm is operational once:

All wires are properly connected.

The smoke alarm is correctly installed on the mounting base.

The alarm has been tested.

Legrand RF smoke alarms are capable of linking together to make a unique network. When one RF or hard-wired Interconnected unit senses smoke, it sounds an alarm and triggers all other units on the same network to sound an alarm. Only the originating smoke alarm will have a flashing RED LED.

VISUAL AND AUDIBLE INDICATIONS

VISUAL INDICATION				MEANING	
EN	RED	BLUE	SUUND PATTERN	MEANING	
ON				Unit is connected to 240V a.c.	
=	N/A	N/A	N/A	Unit is not connected to 240V a.c	
Ą	N/A	N/A	3 beeps in 4 sec (1 cycle)	Wired unit being tested	
		1 Flash in 4 sec	3 beeps in 4 sec (1 cycle)	RF unit being tested	
		N/A	3 beeps in 2 sec (1 cycle)	Other wired units on the network being tested	
		1 Flash in 4 sec	3 beeps in 2 sec (1 cycle)	Other RF units on the network being tested.	
Ą		Solid ON		This is the Master smoke alarm	
	N/A	2 Flashes every sec	N/A	Slave is searching for Network	
		1 Flash every sec		Slave connected to Network	
		Fast flashing for 90 sec		Master smoke alarm exiting pairing mode	
	Single flash, followed by 3 flashes		N/A	Smoke alarm is battery activated	
Ą	1 Flash every 300 sec	N/A		Normal operation (Standby mode)	
	1 Flash every minute		Single beep every minute	Low battery indication (End of life)	
Å	3 flashes every 4 sec (1 cycle) and repeats	N/A	3 beeps every 4 sec (1 cycle) and repeats	Smoke detected (Wired Unit)	
	3 flashes every 4 sec (1 cycle) and repeats	Flashes once every 4 sec	3 beeps every 4 sec (1 cycle) and repeats	Smoke detected (Wireless Unit)	
	N/A Flashes once every 4 sec		3 beeps every 2 sec (1 cycle) and repeats	Smoke alarm interconnect (Triggered by wireless unit)	
	N/A	N/A	3 beeps every 2 sec (1 cycle) and repeats	Smoke alarm interconnect (Triggered by wired unit)	

TABLE 5

TESTING (NETWORK TEST ONLY)

This test is performed to check if:

All the smoke alarm units on one network are all interconnected and working as it should be.
To check if all smoke alarm units on a network are within the working range.
Before testing, make sure that the smoke alarm is connected to the AC power supply and the Green LED is 0N.

	User Input	Detector Response	Timeout
1	Select one of the RF Smoke Alarm in the network: Hold the network button for 10-12 seconds.	Solid BLUE light	Master mode will timeout in 9 min
2	After 30 seconds visually check all other RF units.	Slow BLUE flashes	Timeout in 9 min.
3	Exit Network Test Mode: Go to the MASTER smoke alarm (the one in step1) and hold down the Network button and count 2 to 3 flashes of the BLUE light then release.	BLUE light on the MASTER will flash fast followed by the BLUE lights on all SLAVES turning OFF. This may take up to 90 seconds.	Network is closed
		TABLE 6	