

**AC WIRELESS PHOTOELECTRIC SMOKE ALARM**

SKU# 299286

220-240V~ 50Hz (3V DC backup)

To ensure correct function and safety, please read and follow all instructions carefully before assembly, installation and use of this product. Please keep instructions for future reference.

**Warranty**

- This product is covered by a 10-year in-home warranty.
- The warranty period is from the date of purchase, not the date of installation.
- If the product is not installed by a licensed electrician, the warranty will be void.
- Please retain the proof of purchase and evidence of installation by a licensed electrician for any warranty enquiries.
- The warranty will be void if there is any damage due to improper usage or modification to the product.
- Failure to comply with the instructions in this manual may increase the risk of damage or injury and will void the warranty.

**Installation Requirements**

- This product must be installed by a licensed electrician.
- All wiring and installation of this product must adhere to the latest local and national wiring rules and building codes. e.g. AS/NZS 3000 Electrical Installations.

**WARNING: Ensure the mains supply wire are connected to the correct terminals.**

**The mains supply wire MUST NOT be connected to the Interconnect terminal.**

**WARNING: DO NOT connect the interconnect wire to “Active/Live” or “Neutral”.**

**NOTE: This is a Class II product and must be maintained during wiring and installation.**

- All interconnected smoke alarms must be supplied from the same circuit.
- Regular testing of this smoke alarm is necessary to ensure the unit is functional and that the battery is in good condition.
- It is recommended that the smoke alarm be replaced after 10 years of normal service.
- There are no other user-serviceable parts inside. Do not attempt to repair it yourself in case of electrical failure.
- The supplied battery can operate for 10 years under normal working conditions. However, if there are many items in an interconnection network and the alarm is triggered frequently, the battery life may not reach 10 years.

**NOTE: An audible beep every 1 minute indicates the battery is in low-capacity condition.**

- This product must only be used for the purpose described in these instructions and must be installed in accordance with the wiring rules and regulations in that location. Hazardous voltage may be present at the wire leads of this product.
- Isolate the electrical supply before doing any work on this product.
- Ensure that the product has been correctly installed and tested for safe operation before reconnecting the electrical supply.
- Ensure the green LED is ON, when the mains supply has been turned “ON”.
- Ensure sure the red LED is not flashing quickly.
- Test each unit one by one. Press and hold the Test button until second burst of 3 beeps has finished. Ensure every interconnected alarm is alarming correctly. If any unit fails to alarm, check all wiring connections.
- Remove battery isolation label before final installation.

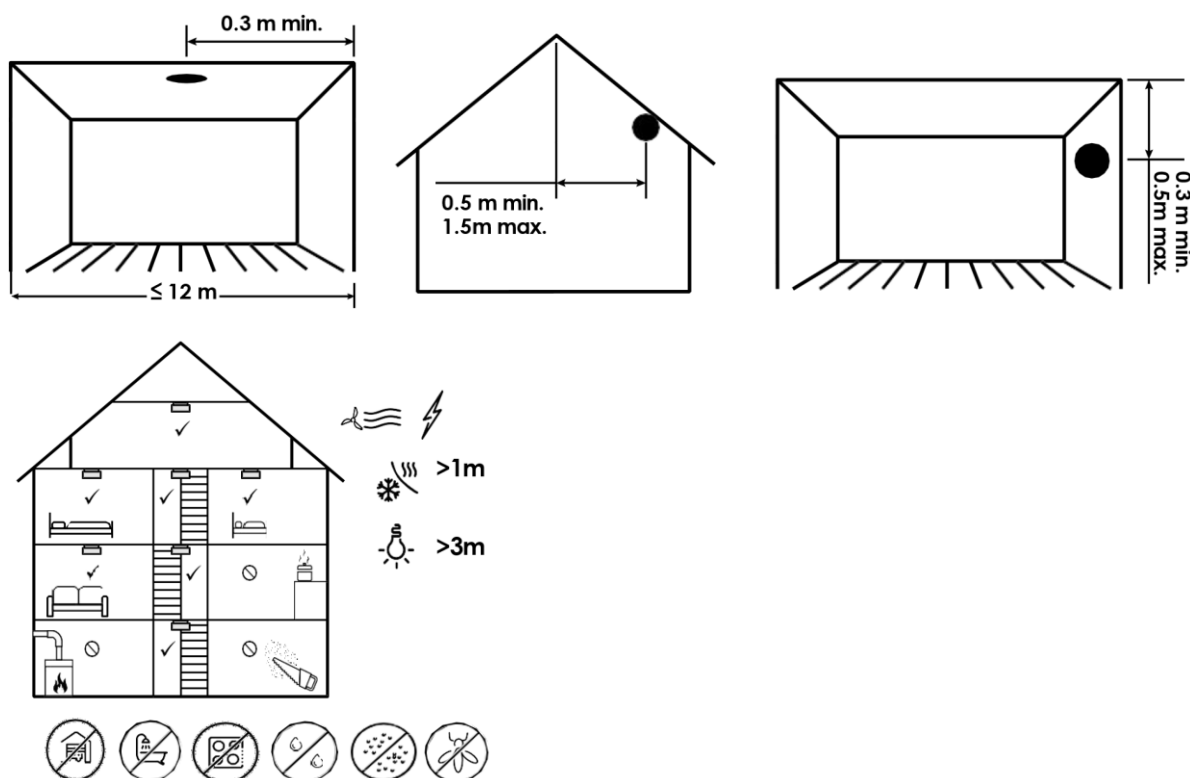
## Installation Directions

**WARNING: Ensure power to the circuit you are working on has been switched OFF before commencing any electrical work**

1. Select a location for installation:

- The smoke alarm can be installed on a flat/inclined ceiling or wall.
- DO NOT install smoke alarms near windows, door or ducts.
- DO NOT paint, add stickers or other decorations onto the smoke alarm.

**CAUTION: Incorrect installation may cause false alarms.**



2. Open the terminal flap cover and connect the wires to the terminals.

Connect the E/Loop and interconnect wires if necessary.

Tighten the screw terminals and ensure the wires are secure and no bare wires are exposed.

3. Close the terminal flap cover over the terminals to avoid contact with the live terminals and electric shock.

4. Install the smoke alarm onto the mounting surface.

5. Pull and remove the battery isolation label and clip the smoke alarm back onto the base.

**NOTE: The smoke alarm will not clip back onto the base if there is no battery installed.**

6. Turn the mains power back ON and see if the smoke alarm is functioning correctly:

The green LED will show the mains supply is connected.

The red LED will pulse every 40-60 seconds to indicate correct operation and that the 3V DC battery is operating.

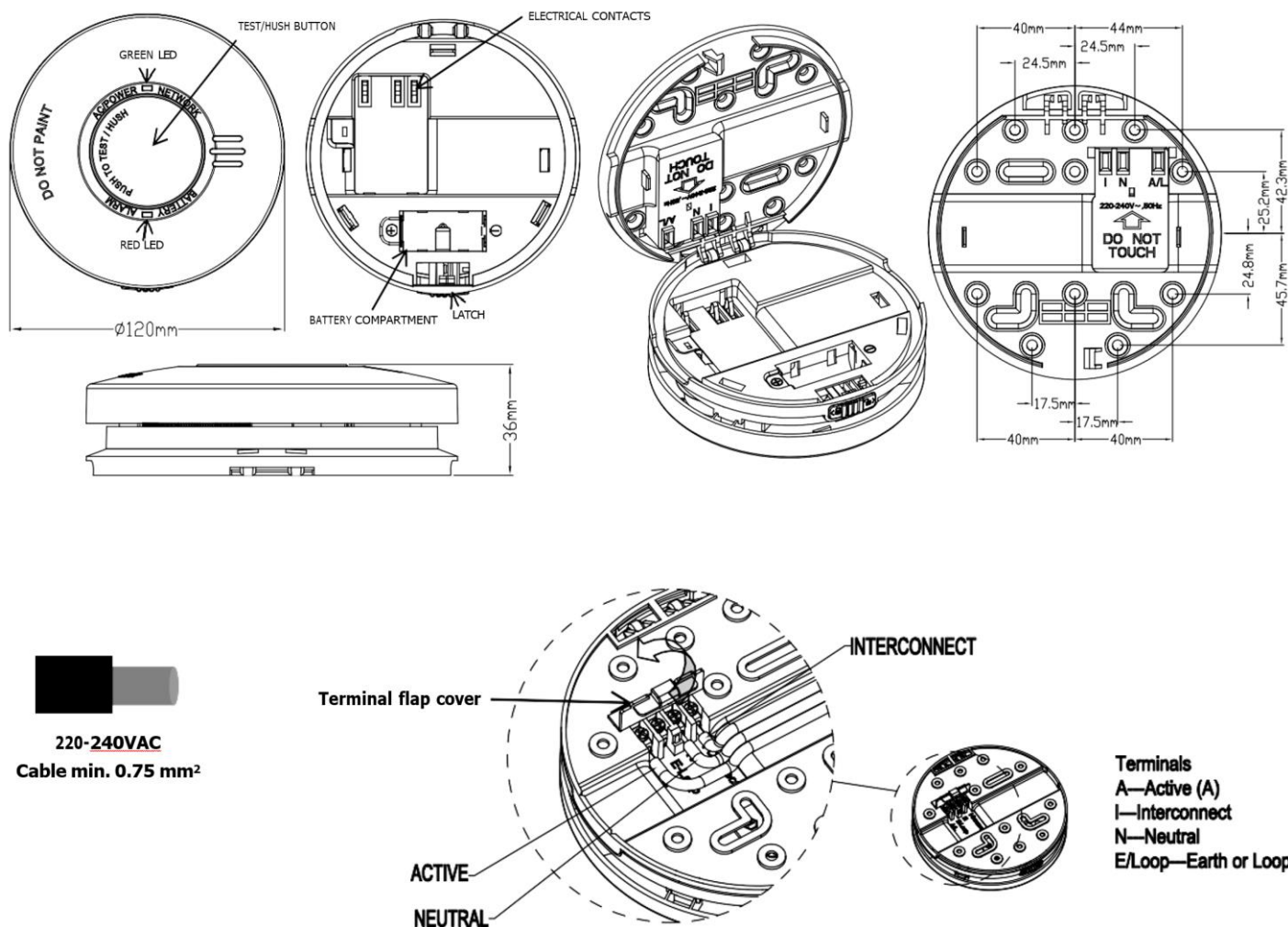
7. Press the Test/Hush button to check if the alarm works.

**CAUTION: Due to the loudness (85 decibels) of the smoke alarm, always stand an arms-length away from the smoke alarm when testing.**

**IMPORTANT: Installation is not complete until the green LED is on and the red LED pulsing every 40-60 seconds.**

**NOTE: The smoke alarms can be joined and interconnected together, so if any smoke alarm is triggered, all smoke alarms in the group will also give an alarm warning.**

The smoke alarms can be joined and interconnected together via RF wireless or hardwired together.



## Testing

Test by pushing the Test/Hush button on the smoke alarm for three seconds until the alarm sounds. The alarm will sound if all electronic circuitry, horn and battery are working. If the battery is new and installed correctly and the alarm doesn't sound, replace the smoke alarm.

**IMPORTANT:** If premises are unoccupied for a period of time (more than a few days) then a battery test should be undertaken upon return. If the low battery warning sounds, test and replace the battery if necessary.

**DO NOT** use an open flame to test your alarm, you could damage the alarm or ignite combustible materials and start a structure 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 monthly to ensure proper operation. Erratic or low sound coming from your alarm may indicate a defective alarm.

Check that all interconnected smoke alarms operate during the test.

**TEST THE SMOKE ALARM ONCE PER MONTH TO ENSURE PROPER OPERATION**

## RF Wireless Interconnection

1. Select one of the smoke alarms to be the primary unit and consecutively press the centre of the test/hush button 7 times. The green LED indicator will be pulsing, and the smoke alarm is now set as the primary unit and is ready for interconnection with the other smoke alarms.

**NOTE: The primary unit will stay in pairing mode for 60 seconds.**

2. On another smoke alarm, consecutively press the centre of the test/hush button 5 times to interconnect it with the primary smoke alarm. The LED indicator will turn on and a few seconds later it will give a “beep” to confirm it has successfully connected with the primary smoke alarm.
3. Repeat step 3 on any other remaining smoke alarm to interconnect them together in the same group. (Maximum of 48 smoke alarms in a group)

**NOTE: If there is no “beep”, it means that the smoke alarm has not connected to the group successfully.**

**You may need to reset the smoke alarm to the factory default setting before pairing again.**

**To reset the smoke alarm, press the test/hush button 9 times and the green LED indicator will flash 2 times and the smoke alarm will be in the factory default setting.**

**NOTE: The primary smoke alarm will stay in pairing mode for 60 seconds.**

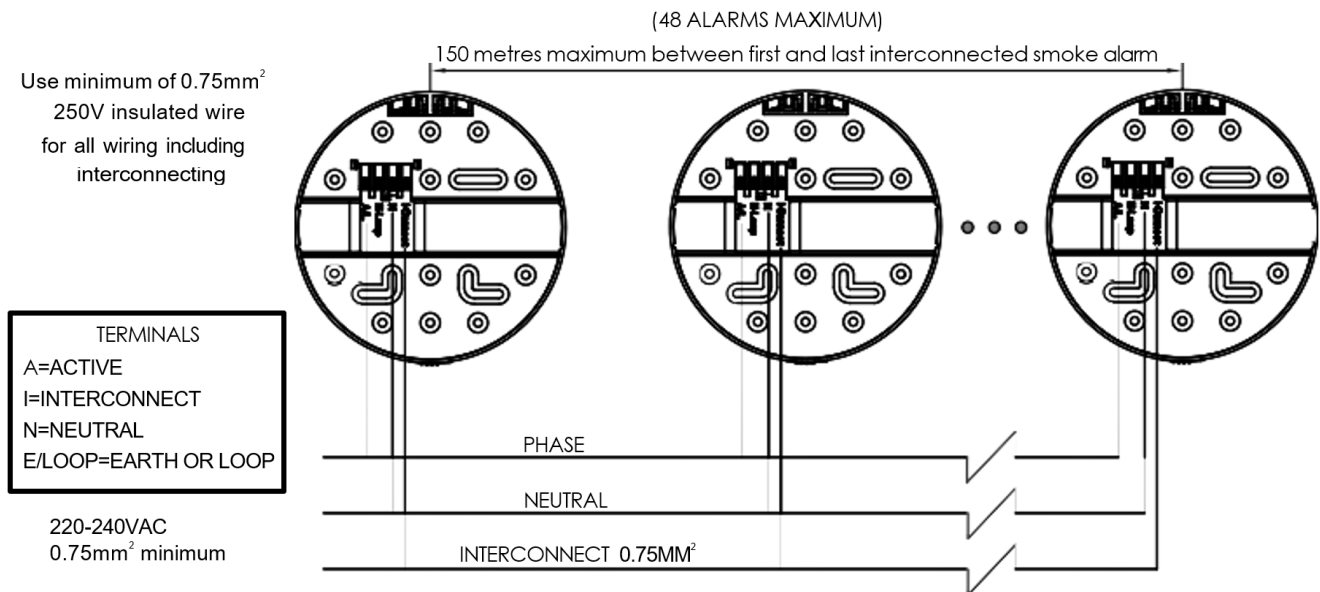
**If more smoke alarms need to be added to the group, then you may need to re-set the primary mode by following step 1.**

RF wireless interconnection  
(Max. 48 pieces)



| FUNCTION                                                       | TEST / HUSH BUTTON                                                                                                                                    | LED INDICATOR                                                                                                                                                             | FUNCTION EXIT                                                                                                         |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Set up the primary smoke alarm as an interconnected group.     | Consecutively press the test/hush button 7 times until the green LED indicator is flashing pulsing. The primary smoke alarm enters into pairing mode. | The LED indicator flashes at a frequency 1Hz                                                                                                                              | Long press the Test / Hush button till it beeps for one time, the smoke will exit from the status of interconnection  |
| Adding a secondary smoke alarm into the interconnection group. | Consecutively press the test/hush button 5 times on any secondary smoke alarm to pair.                                                                | The LED indicator will be ON and a few seconds later, the smoke alarm will give a “beep”, which means it joins the main model in a group for interconnection successfully | Long press the Test / Hush button till it beeps for one time, the smoke will exit from the status of interconnection. |
| Reset to factory default settings.                             | Consecutively press the test/hush button 9 times                                                                                                      | The LED indicator flashes 2 times, then it goes off.                                                                                                                      | No further action required.                                                                                           |

## Hardwire Interconnection



1. A more than 5V signal is applied to the interconnect wire (referenced to neutral) to alarm the other interconnected smoke alarms.

**NOTE: Check and ensure every interconnected smoke alarm is wired correctly.**  
**("I-Connect" and "N" terminals are used for interconnection)**

2. Check the wiring of all the interconnected alarms is correct.

## Operation

**Startup Operation:** Once the 240V mains power switch has been turned ON and the 3V battery is installed correctly, the smoke alarm will commence operation.

**Normal Operation:** The green LED will show the mains supply is connected and the red LED will flash once every 40-60 seconds to indicate the smoke alarm and battery are functioning properly.

**Alarm Operation:** The red LED will flash rapidly and the smoke alarm will sound a loud alarm (around 85 decibels). This will continue until the air has cleared.

**Hush Operation:** The red LED will flash every 8-12 seconds. This occurs when the alarm has been sounded and the hush button has been pressed.

**Low Battery:** An intermittent "Beep" accompanied by a red LED flash every 60 seconds indicates a low battery.

### TEST / HUSH Button:

- If cooking or other non-hazardous sources cause the smoke alarm to sound, check and verify that it is not a fire.
- The smoke alarm can be silenced by pushing the Test / Hush button for 3 seconds.
- The alarm then enters a dormant period. After the 8~15 minutes of dormant period, the smoke alarm will resume normal operation.

**NOTE: This Hush or Silence Feature can only be available after the smoke alarm has been triggered.**

**CAUTION: Before using the hush/silence feature, 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, Repair, Service, Disposal

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

**Maintenance:** In addition to weekly testing, the alarm requires periodic cleaning to remove dust, dirt, and debris.

Clean the alarm at least once a year to remove dust, dirt or debris.

Use a vacuum cleaner with a soft brush to vacuum all sides and covers of the smoke alarm.

**IMPORTANT: Always test the smoke alarm after cleaning.**

**Replacing the Backup Battery:** The smoke alarm is supplied by a replaceable 3V Lithium backup battery.

The battery should last at least 10 years, but if there is no AC mains power supply and the alarm is triggered frequently, the battery life may not reach 10 years. An audible beep every 1 minute indicates the battery needs to be replaced.

**Recommended Batteries:** 3V lithium battery (CR2/3A or CR123A)

**IMPORTANT: Always test the smoke alarm after replacing the backup battery.**

**Repairs/Service:** If the smoke alarm is defective in any way, do not attempt to dismantle or open the smoke alarm.

The smoke alarm does not contain any user-serviceable parts. Do not attempt to repair the smoke alarm.

This will void the warranty. If the smoke alarm is not operating properly, please contact a licensed electrician to replace it immediately with a comparable smoke alarm.

**Disposal:** The smoke alarm does not contain any radioactive material. Please discuss with your local council about disposal

| Specifications        |                                               |
|-----------------------|-----------------------------------------------|
| SKU #                 | 299286                                        |
| Rated Voltage         | 220-240V~ 50Hz                                |
| Standby Current       | <10µA                                         |
| Alarm Current         | <100mA                                        |
| Battery               | 3V DC Lithium<br>CR2/3A or CR123A             |
| Battery Life          | 10 years                                      |
| Sensing Type          | Photoelectric                                 |
| Wireless Interconnect | Radio Frequency 433MHz                        |
| Operating Range       | Temperature: 0°C - 45°C<br>Humidity: 5% - 95% |
| Alarm Level           | 85 decibels at 3 metres                       |
| Alarm Pattern         | Aural signal pattern (ISO 8201)               |
| Compliance            | AS 3786:2014 +A1 +A2                          |
| Weight                | 188 grams (with battery)                      |
| Dimensions            | H:40mm Dia:120mm                              |



| Troubleshooting    |                                                                             |                                                                                                                                                         |                                                                                               |
|--------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| CONDITION          |                                                                             | MEANING                                                                                                                                                 | RESOLUTION / ACTION                                                                           |
| <b>ALARM SOUND</b> | Alarm sounds and the RED LED is flashing rapidly.                           | Smoke has been detected and the alarm is activated by the smoke alarm.<br>OR<br>The test / hush button was pushed for testing all interconnected units. | Evacuate the building immediately and call the Fire and Emergency Services.                   |
|                    | Alarm sounds but the RED LED is OFF.                                        | Smoke alarm is activated by an interconnected smoke alarm in the group, located somewhere else in the building.                                         | Evacuate the building immediately and call the Fire and Emergency Services.                   |
|                    | Smoke alarm is sounding, it stops when test/hush button is pressed.         | Hush or silence feature has been activated and the smoke density does not increase.                                                                     | Ensure you are safe and be aware of the source of the smoke.                                  |
|                    | Smoke alarm is sounding, it does not stop when test/hush button is pressed. | Smoke density is too high for the hush or silence feature to activate.<br>Smoke density is increasing.                                                  | Evacuate the building immediately and call the Fire and Emergency Services.                   |
|                    | When test/hush button is pressed for 3 seconds alarm sounds briefly.        | The smoke alarm horn is indicating that all electronic circuitry, horn and battery are operating correctly.                                             | Normal test condition. Test regularly to ensure proper operation.                             |
|                    | When test/hush button is pressed for 3 seconds the alarm does not sound.    | The smoke alarm may not be operating correctly.                                                                                                         | Check if the battery is installed correctly.<br>If problem persists, replace the smoke alarm. |
| <b>BEEP</b>        | 1 audible beep about every 60 seconds.                                      | Low battery warning.                                                                                                                                    | Replace with a new smoke alarm.                                                               |
|                    | 3 audible beeps about every 60 seconds.                                     | The smoke alarm may not be operating correctly.                                                                                                         | Replace with a new smoke alarm.                                                               |
| <b>LED</b>         | Green LED pulsing.                                                          | Primary smoke alarm is in pairing mode.                                                                                                                 | Interconnection setup.                                                                        |
|                    | Green LED ON.                                                               | Join a smoke alarm into the interconnection group as a secondary model.                                                                                 |                                                                                               |
|                    | Green LED fast flash x 2 times.                                             | Reset to factory default setting.                                                                                                                       |                                                                                               |
|                    | Red LED fast flash about every 40- 60 seconds.                              | The smoke alarm is functioning correctly.                                                                                                               | Normal operating condition.                                                                   |
|                    | Red LED fast flash about every 9-15 seconds                                 | Smoke alarm is in hush/silence mode.                                                                                                                    | After 8-15 minutes, remove from hush/silence mode.                                            |
|                    | Red LED not flashing                                                        | The switch inside the bottom cover is not turned ON or battery is completely flat.                                                                      | Turn on the battery switch or replace the smoke alarm.                                        |