

# SMOKE ALARM R240

240V, Mains Power Photoelectric Smoke Alarm with 9V Battery Backup



## INSTALLATION INSTRUCTIONS

**PLEASE NOTE:** READ ALL INSTRUCTIONS BEFORE INSTALLATION. NO USER SERVICEABLE PARTS INSIDE THIS SMOKE ALARM. THIS ALARM MUST BE INSTALLED BY A LICENSED ELECTRICIAN.

### Specifications:

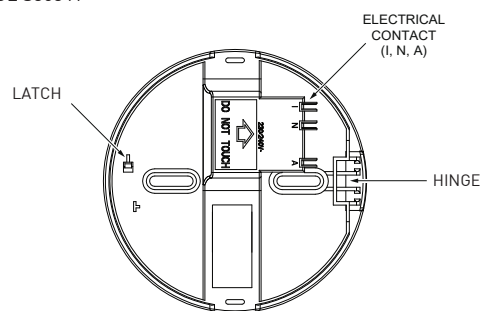
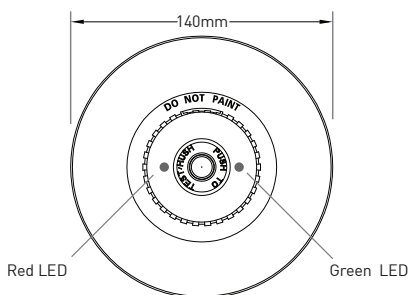
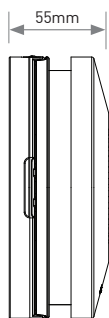


Main Power Source  
Backup Battery  
Operating Current  
Sensing Type  
Temperature Range  
Humidity Range  
Type of Installation  
Interconnecting

220-240V, 50Hz  
9V carbon zinc or alkaline battery  
≤40 mA  
Type A Photoelectric smoke alarm - contains NO radioactive material  
0°C to 45°C  
5% to 95%  
Indoor  
40 alarms for wireless  
40 alarms wired over 150 metres maximum  
Active, Neutral, Loop and Interconnect terminals,  
each accommodates 2 × 1.5 mm<sup>2</sup>  
85dB at three metres minimum  
Audible signal pattern (ISO 8201)  
Green LED for mains power ON  
Red LED for warning and low battery indication  
AS 3786:2014, UL S36341

Terminals

Sound Level  
Alarm Condition  
Visual Indicators  
Approval



### Installation & Interconnecting Smoke Alarms:

- Strip the Active/Neutral and Interconnect (if used) wires back to the strip length shown below.
- Connect the wires to the correct terminals on the base and ensure the terminal screws are fully tightened.

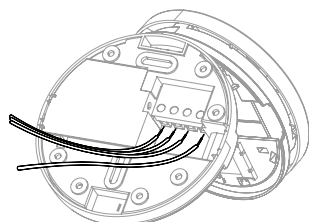
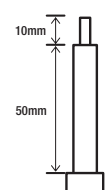
**CAUTION: DO NOT USE IMPACT (ELECTRIC) DRIVERS FOR THE INSTALLATION OF THIS UNIT. FAILURE TO ADHERE MAY RESULT IN DAMAGE TO THE UNIT, CONSEQUENTLY VOIDING THE WARRANTY.**

- Screw the mounting base onto the ceiling or wall using plugs and screws.
- Clip the smoke alarm on to the base and install the 9V battery. The smoke alarm will not latch to the base unless the battery is installed.
- Turn on the mains power and check the green and red LED function. The Green LED should be constantly illuminated to show mains power present. The Red LED will pulse every 40-60 seconds to indicate correct operation and that the 9V battery is charged.
- Press the Test/Hush button for 3 seconds to check that the alarm is functioning. Installation is not complete until both LEDs are functioning correctly.

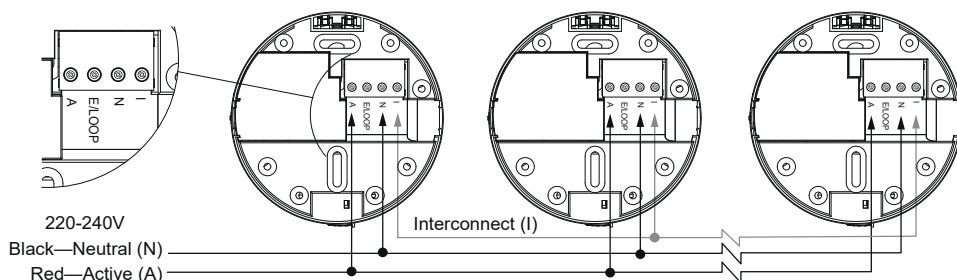
#### NOTICE - EQUIPMENT INSTALLATION COMPLIANCE

Follow National/State Electrical Codes and any local state legislation requirements. Cable sizing must be in accordance with AS/NZS 3000:2018 wiring regulations and adhere to state regulations a minimum of 1.0 mm<sup>2</sup> 250V.

Interconnect cable on alarms must be SDI cable. (No 4core/ aircon wire to be used) Failure to follow will void warranty.



TERMINAL	
A:	Active / Line
E/LOOP:	Earth or Loop
N:	Neutral
I:	Interconnect



### Battery & Battery Replacement:

#### Battery Instruction

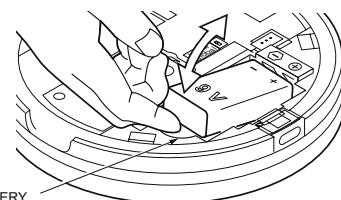
- The smoke alarm uses one 9V battery to automatically provide back-up power to the alarm if AC power fails. The battery will operate the alarm for approximately one to three months with AC power off.
- The battery should last at least one year under normal operating conditions. Recommended batteries included: Energiser 522
- To replace battery, unlatch unit from mounting base and remove the battery from compartment. Replace the old battery with a fresh one and close unit. Verify that the green LED is on.

#### Battery Replacement

- The battery should be replaced once a year.
- Smoke alarm cannot be closed properly without battery in place.

#### IMPORTANT

The operation of the smoke alarm must test with the test facility whenever the batteries are replaced.



## Operation and Testing

### OPERATION

Once the mains power (220-240V) is connected and the 9V battery is installed correctly, the smoke alarm is operating.

#### Once Smoke Is Detected

The smoke alarm will sound a loud alarm (85 dB) and the red LED will flash rapidly. This will continue until the air is cleared.

#### Standby Condition

The red LED flashes once every 40-60 seconds to indicate the smoke alarm and battery are functioning correctly.

#### Green LED

The green LED is illuminated when the mains power (220-240V) is on.

#### Memory Function

If one of the alarm indicators [RED LED] flashes every 4 seconds, it means that a smoke alarm was activated before. This function will remain active for 72 hours.

**Important information:** After the Test/Hush button has been pressed, wait 10 minutes before any additional testing is conducted to avoid any false alarm responses as product has reduced sensitivity during this period. Refer to 'Hush or Silence Feature' on the first page

## Hush or Silence Feature

- This smoke alarm has a built-in Hush or Silence feature incorporated into the Test/Hush button.
  - If cooking or other non-hazardous sources cause the alarm to sound, it can be temporarily silenced by pressing the Test/Hush button for 3 seconds.
  - The alarm then enters a dormant period for 10 minutes.
  - After the 10 minute dormant period, the smoke alarm will resume normal operation.
- Note: After the Test/Hush button has been pressed, wait 10 minutes before any additional testing is conducted to avoid any abnormal responses as the smoke alarm is not sensitive to smoke during this period.**

## Recommended Locations of Alarms:

- Install at least one alarm for each bedroom.
- Install at least one alarm to protect any stairway.
- Install at least one alarm on every floor level.
- Install an alarm in every room where a smoker sleeps as additional protection.
- Install an alarm in every room where electrical appliances are operated (i.e. portable heaters or humidifiers) as additional protection.
- Install an alarm in every room where someone sleeps with the door closed as additional protection. The closed door may prevent the alarm from waking the sleeper.
- When mounting an alarm on the ceiling install it at a minimum of 300mm from the side wall and 500mm max. from any corner (see 3i diagram).
- When mounting an alarm on a wall, install it at a minimum of 300mm from the ceiling level but not more than 500mm from the ceiling level and any corner (see 3i diagram).
- When mounting an alarm at the apex of a sloping ceiling it should be located a minimum of 500mm from the apex but should not exceed 1500mm (see 3ii diagram).

## Avoid These Locations:

Do not place alarm in the following locations:

- The garage. As the emissions will be released and may cause false alarming, when you start a motor vehicle.
- In front of forced air supply ducts used for heating and air-conditioning and other high airflow areas.
- In the peak of an "A" frame type of ceiling.
- In areas where temperatures may fall below 0°C or rise above 45°C.
- In dusty areas, dust particles may cause smoke alarm to false alarm or fail to alarm.
- We do not recommend installation in or directly adjacent to areas of high condensation such as bathrooms & laundries due to potential for false alarms.
- Kitchen/cooking areas.

## Maintenance:

The smoke alarm is virtually maintenance free. However, under dusty or greasy conditions, a vacuum cleaner may be used to clean the exterior of unit (including slots on cover).

**DO NOT IMMERSE IN OR SPRAY WITH HOUSEHOLD CLEANERS.**

**If the unit gives a chirping sound every 60sec the battery may need to be replaced.**

### TESTING

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

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.

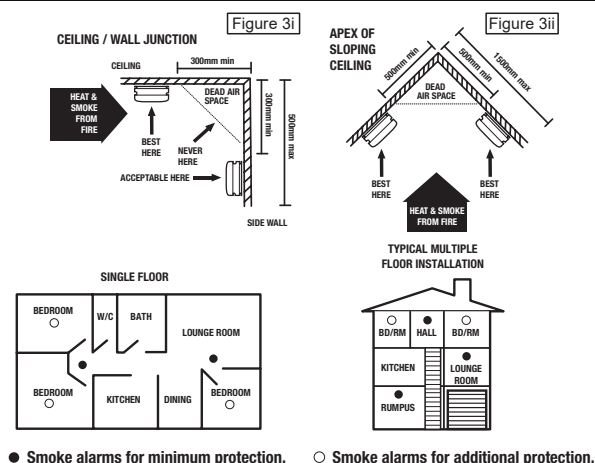
If no alarm sounds, check the battery is installed the correct way around or replace the battery. If the battery is new and installed correctly and the alarm still doesn't sound, replace the smoke alarm.

It is possible for the smoke alarm to fail at any time. For this reason, you must test the smoke alarm weekly and replace every 10 years.

**Never use an open flame of any type to test your alarm.**

**Check that all interconnected smoke alarms operate during the test.**

## Installation of Smoke Alarms:



**IMPORTANT: INCORRECT ORIENTATION OF SMOKE ALARMS MAY DECREASE OPERATIONAL EFFECTIVENESS**

## Troubleshooting Guide:

Condition	Meaning	Resolution / Action
One audible beep every 40 to 60 seconds.	Low battery warning	<ul style="list-style-type: none"><li>• Test and check the mains power connection.</li><li>• Make sure the transport disconnect interlock is removed.</li></ul>
Two audible beeps every 40 to 60 seconds.	The smoke alarm may not be operating correctly.	<ul style="list-style-type: none"><li>• Clean smoke alarm according to "Maintenance". If the problem persists, contact Red Smoke Alarms, website: <a href="http://www.redsmokealarms.com.au">www.redsmokealarms.com.au</a>.</li></ul>
Red LED flashing every 4 seconds	The smoke alarm has previously been activated.	<ul style="list-style-type: none"><li>• If there is evidence of an alarm event, be sure to investigate further</li></ul>

## Warranty:

Red smoke alarms have a service life of 10 years under normal use. Australian Standards stipulate that smoke alarms must be replaced when the alarm reaches 10 years of age from the manufacture date. Red Smoke Alarms warrants this product to be free from defects in materials and workmanship for a period of ten (10) years from the manufacture date of the alarm. This ten (10) year warranty applies to the first purchaser only - for subsequent purchasers, the warranty is five (5) years from the manufacture date.



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