MAINTENANCE AND CLEANING

Like other electrical accessories in the home, smoke alarms require maintenance to ensure efficient and effective operation.

Proper maintenance can also reduce the likelihood of false alarms.

1. In addition to monthly testing, the alarm requires regular cleaning to remove dust, dirt, or debris.
2. Using a vacuum cleaner with the soft brush vacuum all sides and cover of the device.

NOTE: Do not attempt to remove the cover to clean inside as this will affect the alarm's warranty.

HOW TO DEACTIVATE THE SMOKE ALARM

To deactivate, simply disengage the backing plate by rotating and unclicking the alarm. There will be no alarm functions while in this status. You must reactivate the alarm before use. Please refer to “ACTIVATION” to activate the product.

Warning: Deactivating this alarm should only be performed if you need to dispose of the smoke alarm or if you need to cease a nuisance alarm which is caused by a failure of the smoke alarm.

TROUBLESHOOTING GUIDE

PROBLEM	SOLUTION
The smoke alarm isn’t making a sound during the test.	Make sure you activate the alarm before installing it.
The alarm beeps once with yellow LED flashes once every 48 seconds.	Low battery alert! Your smoke alarm will warn of a low battery for at least 30 days. Failure to replace the smoke alarm after this time could result in you not being alerted in the case of a fire.
The alarm beeps twice with yellow LED flashes twice every 48 seconds.	The alarm unit is displaying a fault mode status. Kindly contact the manufacturer.
All alarms in my house go into alarm mode while there isn’t a fire emergency.	Interconnected alarms can only be silenced by identifying and hushing the triggered alarm. The red flashing LED identifies the triggered smoke alarm, press HUSH/TEST button for 1-2 seconds to silence all smoke alarms. Check the “ SILENCE ALARM “ section for details.

INDICATION AND ACTION

If you notice any signals from the smoke alarm and are unsure of its condition, please refer to the table below for the “LED Indicator” and “Sound” descriptions. This table will help you identify the alarm’s current status and the appropriate action to take.
If you need additional assistance, we recommend contacting our technical support team. Contact details can be found in this manual.

Status	Description	LED Indicator	Sound
Standby Mode	Smoke alarm is operating normally	Red LED flashes once every 48 seconds	None
Fire Alarm Mode	Smoke detected	Red LED flashes together with the Pulse alarm sound every 1 second	Pulse alarm sound
Test Mode	Press and hold the Test/Hush button to check alarm function	Red LED flashes together with the Pulse alarm sound every 1 second	Pulse alarm sound until button released
Low Battery Warning	Battery voltage is below the threshold	Yellow LED flashes once every 48 seconds	1 “beep” sound
Fault Mode	Fault detected in the alarm signal	Yellow LED flashes twice every 48 seconds	2 “beep” sounds
Silence Mode	Press the Test/Hush button for 1 second during alarm. Temporarily silence the alarm for approx. 8 minutes	Red LED flashes once every 8 seconds	None
No Disturb Mode	Press the Test/Hush button once during Low Battery Warning or Fault Mode. Temporarily silence the alarm for approx. 10 hours	Red LED flashes once every 48 seconds	None
Triggered alarm by interconnection	Alarm triggered via radio frequency interconnection (wireless)	No LED flash	Two quick beeps per second
Alarm Memory	The alarm will indicate it has been triggered within 72 hours	Red LED flashes 3 times every 48 seconds	None
Lifetime Trigger Alarm History	Up to 20 triggered alarm history can be saved in the alarm's memory. Press the Test/Hush button four times within 4 seconds, with each history indicated by a beep and a single RED LED flash	Each Red LED flash indicates one past alarm trigger	Each beep indicates one past alarm trigger
"E" Memory Function	To identify a previous alarm event, press the Test/Hush button two times within 1 second to activate the 'E' Memory function. The memory will automatically clear after 14 days, or it can be cleared by deactivating the alarm and then reactivating again. Within 1 hour of re-activating the alarm the memory will clear.	No Red LED flash = No previous event One Red LED flash = Previous low battery signal Two Red LED flashes = Previous fault signal Three Red LED flashes = Alarm triggered	No beep sound = No previous event One beep sound = Previous low battery signal Two beep sounds = Previous fault signal Three beep sounds = Alarm triggered

We recommend the installation of an Emerald Smoke Alarm Controller, which allows you to test, silence and locate triggered smoke alarms without the need to reach up to the alarms on the ceiling.

In any issues persist, contact your retailer.

WARRANTY INFORMATION

K.P.S Australia Pty Ltd warrant this smoke alarm to the original purchaser.

K.P.S Australia Pty Ltd warrants each new smoke alarms is free from defects in material and workmanship under normal use and service for a period of 10 years from the date of manufacture.

This warranty does not cover damage resulting from accident, misuse, abuse, improper installation, or failure to use or maintain the product in accordance with the manufacturer’s instructions.

In no event shall K.P.S Australia Pty Ltd be liable for any incidental or consequential damages arising from the breach of this or any other warranty express or implied.

Faulty products can be mailed to the following address with a detailed explanation of the problem.

K.P.S. AUSTRALIA PTY LTD
20 Kikuyu Road, Chevallum QLD, 4555, Australia
support@emeraldalarms.com.au
1300 316 552

2026.01

emerald alarms



Certified Product™
Australian Standard
AS 3786:2023
Lic: SMK41650
SAI Global

SMOKE ALARM USER MANUAL

MODEL NUMBER: EVO10RF

Thank you for choosing Emerald Alarms.

This leaflet contains important information on the correct installation and operation of your smoke alarm.
Please read all the information before commencing installation and retain for future reference.
This unit has been designed to meet the latest safety standards demanded in Australia and complies with the requirements of AS3786:2023.

MODEL NUMBER	EVO10RF
DIMENSIONS	110x30 mm
WEIGHT	145g
WARRANTY	10 years
MOUNTING OPTIONS	Ceiling or wall mount
POWER - BATTERY	10-year non-replaceable 3V lithium battery
INTERCONNECT	Built-in wireless radio frequency (RF) technology. Connects with up to 40 Emerald RF enabled alarms
WIRELESS DISTANCE	>20m (100m outside)
SENSOR	Photoelectric optical chamber
SOUND PATTERN	ISO 8201
ALARM VOLUME	>85dB(A) @ 3m
HUSH/SILENCE TIME	Approx. 8 minutes
NORMAL OPERATING AND STORAGE TEMPERATURE	0°C to 40°C
NORMAL OPERATING AND STORAGE HUMIDITY	≤93% relative humidity (non-condensing)
PACK INCLUDES	Smoke alarm, instruction manual, fixing screws, and mounting plate

DESCRIPTION

This smoke alarm uses advanced split spectrum photoelectric smoke sensing technology with a dual emitter and single receiver smoke chamber, making it highly sensitive to slow smouldering fires, known for their thick, lingering smoke. This design results in fewer false alarms, offering you peace of mind. Please note this device does not detect flames, heat, carbon monoxide, or other hazardous gases. It offers advanced features and an extended battery life for your convenience and safety.

INSTALLATION LOCATIONS

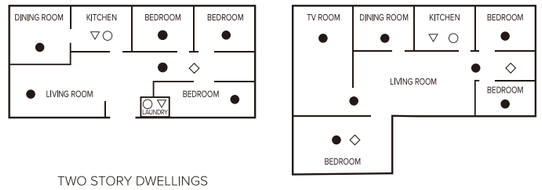
OPTIMAL ALARM PLACEMENT

For the highest level of protection, we strongly recommend installing multiple combination alarms in your home. Each alarm serves a specific purpose and adheres to certain rules and regulations.

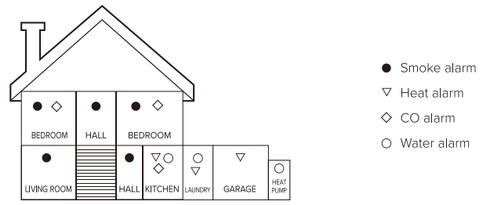
To ensure proper installation, we advise following the state based regulations and installation requirements.

The following graphs illustrate some best practices for alarm placement:

SINGLE STORY DWELLINGS



TWO STORY DWELLINGS



Note: These graphs are for illustrative purposes only and may not cover all potential scenarios. It is essential to assess your home’s layout and potential risks to determine the most effective alarm placement.

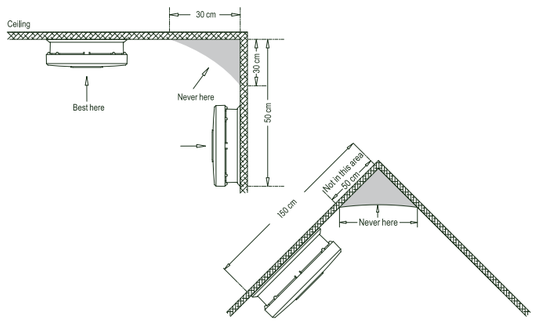
LOCATIONS TO AVOID

1. Don't place alarms in areas prone to steam, condensation, or exposure to normal smoke and heat from appliances, such as bathrooms, kitchens, and garages. These conditions may trigger false alarms.
2. In spaces with high humidity, like bathrooms or areas near dishwashers or washing machines, ensure the alarm is installed at least 3 meters away from these sources of moisture.
3. Keep alarms at least 1 meter away from air returns or heating and cooling supply vents. Airflow from these vents can disrupt the smoke detector's performance by blowing smoke away from it.
4. Do not install alarms in rooms where the temperature may drop below 0°C or exceed 40°C, as extreme temperatures can lead to nuisance or trigger false alarms.
5. Avoid placing alarms in extremely dusty, dirty, or insect infested areas, as particles in these environments may interfere with the proper operation of the alarm.
6. Keep alarms 1 meter away from airconditioning and ventilitation grilles/louvres.

POSITION OF SMOKE ALARMS

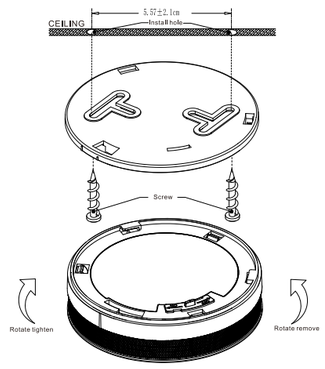
Smoke will spread horizontally after rising to the ceiling, so it's advisable to install the smoke alarm in the centre of the ceiling where possible. Avoid areas where there is no circulation.

- When mounting an alarm on the ceiling, locate it a minimum of 30cm from the side wall.
- When mounting an alarm on the wall, position it a minimum of 30cm from the corner and a maximum of 50cm below the ceiling.
- Install smoke alarm/s on slopped, peaked or cathedral ceilings between 50cm and 150cm from the highest point of the ceiling.



ASSEMBLY AND INSTALLATION

Secure the mounting plate to the ceiling using the supplied screws, then assemble the smoke alarm onto the mounting plate.



Smoke alarm

ACTIVATION

Simply rotate and click the alarm into place on the mounting plate. When you hear the satisfying click, you'll hear a "beep" sound and the LED light up once, indicating the alarm is activated.

WIRELESS INTERCONNECTING FUNCTION

SETTING UP WIRELESS CONNECTION:

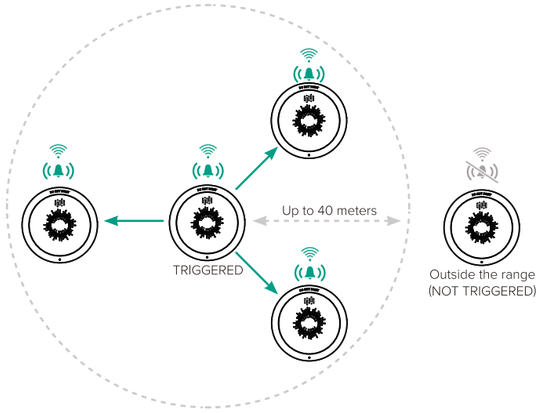
1. Ensure all the alarms are activated.
2. Choose one alarm to be the Master connection point for others.
3. On the Master alarm, press the TEST button three times within three seconds. The red LED will flash quickly, indicating it's in 'pairing mode' for 90 seconds. To exit the pairing mode press the button once.
4. While the Master alarm is in pairing mode, press the TEST button three times within three seconds on the other Slave alarms. They will interface with the Master alarm. Pairing is successful when you hear a beep and see one red LED flash.
5. Repeat steps 3 and 4 for other Slave alarms.
6. After pairing all the alarms, press and hold the Master alarm's Test button for up to 25 seconds to verify that all interconnected alarms are triggered.

DEACTIVATING WIRELESS CONNECTION:

1. Press the TEST button on any alarm three times within 3 seconds. The red LED will flash quickly.
2. Press and hold the TEST button again until the red LED goes out (first time) and then release the button immediately. The red LED will flash slowly.
3. Press the test button again, and the alarm will beep 3 times, confirming the wireless connection has been successfully cleared.

Important:

1. Alarms must be activated for wireless connectivity.
2. A maximum of 40 alarms can be wirelessly interconnected together.
3. Our alarms cannot communicate with other manufacturers' alarms.
4. In a network of interconnected alarms within a 40-meter range, any alarm that detects smoke, will trigger all interconnected alarms simultaneously. The alarm needs to be wirelessly connected for all interconnected alarms to trigger.
5. The wireless range of the indoor alarm may be affected by your home's layout.



Alarm mode within a 40 meter range of the triggered alarm

OPERATION AND TESTING

Smoke alarms are an important safety device in the home. Therefore, it is important to check them regularly to ensure they are operating correctly.

Regular Mode
When there is no smoke present, the red LED should flash every 48 seconds indicating the alarm is operating correctly.

Alarm Mode
When the alarm detects smoke, the red LED will flash once per second and the alarm will sound loudly. The flashing LED and alarm will continue until the air is cleared.

Fault Mode
The alarm "beeps" twice with yellow LED flashes twice every 48 seconds.

No Disturb Mode
When the alarm device is in low battery warning or fault mode, to prevent disruptions during night time, press the test button once. This action will mute the beeping for about 10 hours. After this period, the warning chirp will resume. The red LED will flash once every 48 seconds during No Disturb Mode.

TESTING YOUR ALARM

It is recommended that you test your smoke alarm once a month to ensure the smoke alarm is working correctly. Test by pressing and hold the test button. The alarm will trigger if the alarm's electronic circuitry and battery are working. If no alarm trigger, the smoke alarm has a defective battery, or another fault. All interconnected alarms will also trigger within 25 seconds.

Warning: Do not use an open flame to test the alarm, as it could damage the unit and pose a fire hazard.

LOW BATTERY POWER

Should your smoke alarm have a low battery the unit will emit an audible 'beep' once every 48 seconds and the yellow LED flashes once at the same time. When this occurs you must replace the alarm immediately.

The low battery warning will persist for at least 30 days, but failure to replace the alarm afterward may result in insufficient power to alert you in a real-life emergency. Your smoke alarm relies on a fully operational battery to function effectively.

Note: The battery in this unit is intended to last 10 years and cannot be replaced.

SILENCE ALARM

If your smoke alarm emits the full alarm signal and you are not testing the unit, the smoke alarm is warning you of a potentially dangerous situation that requires your immediate attention. Only use the alarm silence function after making sure that there is no ongoing fire emergency situation.

Do not block the vents on the alarm or disable the smoke alarm in any way as this will remove your protection.

Smoke alarms can sometimes react to cooking fumes or other non emergency situations. In the event of a known false alarm your smoke alarm can be temporarily silenced by pressing the hush button. Your alarm will automatically return to standby mode after 8 minutes.

1. Press the Test/Hush button for 1 second during alarm.
2. Your alarm will silence for approximately 8 minutes.
3. The red LED will flash every 8 seconds indicating it is running in silence mode.
4. Your alarm will automatically return to standby mode on completion of the reset cycle and the red LED will revert to flashing once every 48 seconds.

Warning: Never ignore any alarm. Ignoring the alarm may result in injury or death. If your smoke alarm triggers and you are not absolutely certain of the source of the smoke, get everyone out of the house immediately.

ALARM MEMORY FUNCTION

The smoke alarm will remember if it has been triggered for a period of 72 hours. The red LED indicator flashes 3 times every 48 seconds during that period. If smoke alarm has been deactivated during this 72 hour period, it will return to standby mode once it is re-activated.

This alarm also features a lifetime trigger alarm history that tracks triggered history.

Up to 20 triggered alarm events can be saved in the alarm's history. These can be accessed by pressing the test button four times within four seconds, with each event indicated by a beep and a single red LED flash.

"E" MEMORY FUNCTION

The E Memory function allows the smoke alarm to indicate if a previous alarm event has occurred.

Press test button twice within two seconds:
No beep sound = No previous event
One beep sound = Previous low battery signal
Two beep sounds = Previous fault signal
Three beep sounds = Alarm triggered

The alarm memory will automatically clear after 14 days. Alternatively, the memory can be reset by deactivating the alarm and then re-activating. An hour after re-activating the memory will reset.

ACTIVITY LOG FUNCTION

The smoke alarm's activity log, accessible through Emerald SafeLink, offers detailed insights into its operational history. You can retrieve information such as the date and time of events, triggered alarms, low battery alerts, and other noteworthy activities, enhancing the monitoring and management capabilities of the device.

ECHOTAG FUNCTION

The EchoTag function allows you to quickly retrieve product details through Emerald SafeLink APP. To activate:

1. Open the SafeLink APP on your mobile device.
2. Press the Test/Hush button on the alarm five times within five seconds.
3. The alarm will output product details via its buzzer, which will be displayed in the SafeLink APP.