

User Guide

3

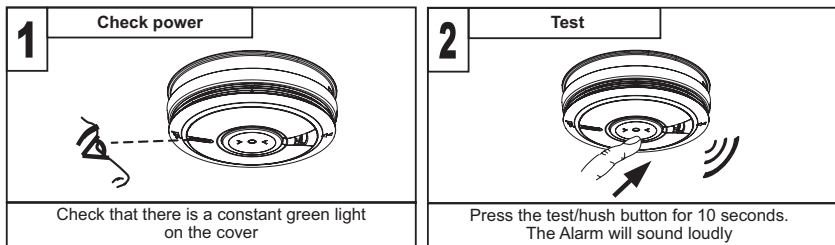
Testing

3.1 Testing and maintaining your Alarm

Frequent testing of all your Alarms is a requirement to ensure they are functioning correctly. Guidelines and best practices for testing are as follows:

1. After the system is installed.
2. Once monthly thereafter.
3. After prolonged absence from the dwelling (e.g. after holiday period).
4. After repair or servicing of any of the systems elements or household electrical works.

Inspecting and Testing procedure



(i) Check that the **green LED power indicator** is on continuously.

(ii) Check also that there are no faults i.e. NO green, yellow or red LED flashing (if this is the case please see indicator summary table).

(iii) Press the **test/hush button** for up to 10 seconds and ensure that the Alarm sounds. This tests the sensor, electronics and sounder are working. The Alarm will stop when the button is released. Pressing the test/hush button simulates the effect of smoke and/or heat and therefore is the best way to ensure the Alarm is operating correctly. (Refer to indicator summary table if you see Red or Yellow LED flashes).

(iv) **Interconnected Alarms only** - Test the first unit by pressing the test/hush button for 10 seconds. All the Alarms should sound within 10 seconds of the first alarm sounding. After releasing the test/hush button, the local alarm will stop sounding immediately and the interconnected Alarms will be heard sounding in the distance for a further 3-4 seconds. This feature gives an audible verification that the interconnection is OK. Check all the other Alarms in the same way.

(v) Check the functioning of the mains battery back-up directly after installation and then at least yearly as follows:

- Turn off the mains power at the distribution board and check that the green indicator light is now flashing (1 flash every 48 seconds) to indicate the Alarm is on backup battery power.
- Press the Test/Hush button for up to 10 seconds and ensure the alarm sounds loudly.
- Monitor the Alarm over a 3 minute period for any fault chirps and or yellow LED fault indicator flashes (Refer to "**Fault Modes**" table on what to do if this occurs)
- Turn the mains supply at the distribution board back on.

Switching off Mains for long periods

If the premises are regularly being left without mains power for long periods the Alarms should be removed from their mounting plates and the Ei3000MRF modules (if fitted) should be removed to prevent the batteries becoming fully depleted. (This is sometimes done with holiday homes which are only occupied in the summer).

The Ei3000MRF modules (if required) must be re-fitted to the Alarms and the Alarms must be re-attached to the mounting plates when the premises are re-occupied. Ensure to match the original RF module back to the same Alarm head.

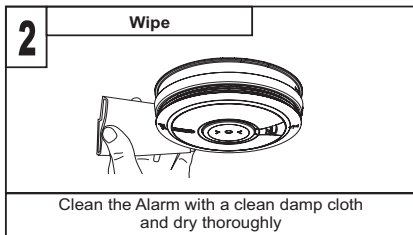
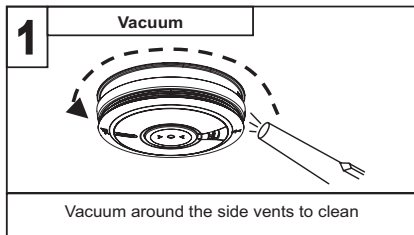
Long term storage (over 1 year) can damage the batteries to the extent that they may not recharge when the Alarms are re-connected to the mains supply.

WARNING: DO NOT TEST WITH FLAME

This can set fire to the Alarm and damage the house. We do not recommend testing the Alarm with heat and/or smoke as the results can be misleading unless effective apparatus is used.

3.2 Cleaning your Alarm

Clean your Alarm regularly. In dusty areas it may be necessary to clean the Alarm more frequently.



Use the narrow nozzle attachment of your vacuum cleaner to remove dust, insects and cobwebs from the sides and cover slots where the airflow enters. Clean the outside cover by occasionally wiping with a clean damp cloth then dry thoroughly with a lint free cloth. Do not use any cleaning agents, bleaches, detergents or polishes, including those in aerosol cans.

WARNING: Do not paint your Alarm.

Other than the cleaning described above, no other customer servicing of this product is required. Servicing or repairs, when needed, must be performed by the manufacturer.

All Alarms are prone to dust and insect ingress, which can cause false alarms or failure to alarm. In certain circumstances, even with regular cleaning, contamination can build up in the smoke sensing chamber causing the Alarm to sound or fail. Contamination is beyond our control, it is totally unpredictable and is considered normal wear and tear. For this reason, contamination is not covered by the guarantee.

4

What to do in
case of alarm

(i). Check room doors for heat or smoke. Do not open a hot door. Use an alternate escape route. Close all doors behind you as you leave.



(ii). If smoke is heavy, crawl out, staying close to floor. Take short breaths, if possible, through a wet cloth or hold your breath. More people die from smoke inhalation than from flames.



(iii). Get out as fast as you can. Do not stop for packing. Have a prearranged meeting place outside for all family members. Check everybody is there.



(iv). Call the Fire Brigade immediately on a mobile phone or from a neighbour's house. Make sure to call the Brigade for all fires no matter how small - fires can suddenly spread. Also call the Brigade even if the alarm is automatically transmitted to a remote manned centre - the link may have failed.



(v). NEVER re-enter a burning house.

















5



Indicator Summary Tables & Troubleshooting





Indicator summary table

Normal mode

Mode	Action	Green LED (power)	Yellow LED (fault)	Red LED (alarm)	Sound
Power up	Slide onto mounting plate	 x 1	 x 1	 x 1	—
Standby	—		—	—	—
Testing (monthly)	Press and hold test/hush button	 *	—	—	
In alarm mode					
Detecting fire	—		—		
Activated via interconnect	—		—	—	
Pressing Silence Button on Alarm detecting fire	—		—		 x 10mins

* With the test/hush button held the green LED will flicker/pulse every second

 = LED on solid  = LED flashing

Memory mode			
Status	Action	Red LED (alarm)	Sound
0-24h	—	 every 48 sec x2	—
>24h +	Press and hold test/hush button	 every 8 sec x2	
To erase the memory	Keep test/hush button pressed for >20s		Sounds until test/hush button is released

The Alarm memory is an important feature where even if the house is unoccupied during an alarm condition it warns the homeowner that the Alarm has previously detected Fire and been in alarm.

The memory feature also helps identify the unit which has previously triggered an entire alarm system, which can also be very helpful after the entire alarm system has gone into alarm and then stopped, for no obvious reason. Once the source alarm has been identified, appropriate action can be taken e.g. in the case of a fire alarm event in memory, investigate the cause of nuisance / false alarms by ensuring kitchen or bathroom doors are kept closed to prevent very hot air or steam from cookers / showers reaching the heat sensor on the Alarm, locate the Alarm further away from the source of steam or condensation, replace the Alarm if it is thought to be defective or remove the unit in the short term.



















The memory feature has two operation modes:

- memory indication for 24 hour period after alarm.
- memory recall on demand

24-hour memory indicators: For 24 hours after alarming, the red LED will flash twice every 48 seconds (approx)

Memory recall on demand: To review the memory status at any time, press and hold the test/hush button, the red LED will flash twice to convey the alarm event in memory, if any.

Reset Memory: Hold down the test/hush button for at least 20 seconds. Cover the sounder with a cloth to muffle the alarm during this time. Clearing of the memory is indicated by a 1-second-long flash of the red LED. Please note that the alarm memory will also be reset if the Alarm is removed from its mounting plate.

Fault modes and Memory indicator					
What you hear / see				What it means	What to do
Green LED ¹ (power)	Yellow LED ² (fault)	Red LED (alarm)	Chirps		
 every 48 sec	—	—	—	AC mains off	Reconnect AC mains power
—	 every 48 sec	—		AC mains off Low battery backup	Reconnect AC mains power
	 every 48 sec	—		Low battery backup	Replace Alarm
	 every 48 sec	—	 x2	Sensor fault	Replace Alarm
	 every 48 sec	—	 x3	End of Life	Replace Alarm
	 every 8 sec	—	 x4	Max Dust Compensation has been reached	see Maximum Dust Compensation section
	Flashes as per fault type	—	—	Fault chirps have been silenced. Rate of the yellow LED flashing indicates fault type	If required chirping can be silenced again by pressing Silence button
	—	 when pressing test/hush button	—	There has been an alarm in your absence	Check Alarm memory section

1 ON when AC mains power is switched on, flashes every 48s when on backup battery, OFF when both AC mains and backup battery are off.

2 If you are unsure of the amount of flashes of the Yellow LED you can at any time while a fault condition exists, press the test/hush button. The relevant number of flashes will then be 8s apart.

Note: Fault chirps can be silenced by pressing the Test/Hush button.

The Alarm can communicate its status and history through various Led flashes and chirps/beeps. However, a more comprehensive report of all such events is available through the AudioLINK download via the smart phone App.

Low Battery Backup Fault

If the battery backup supply is depleted, the sounder will give one short chirp with one yellow LED fault indicator flash every 48 seconds. In this case check that the green LED power indicator is on continuously. If it is off, or flashing every 48 seconds, the Alarm is not receiving 230V AC mains power and is being powered by the battery backup. The chirp every 48 seconds indicates that the battery is depleted. The battery is not replaceable. Check fuses, circuit breakers and wiring to determine the cause of the interruption to the mains power. If in doubt, contact a qualified electrician. Once mains power is reinstated, the chirps should cease within 2 hours as the battery charges up. If the chirping persists for over 2 hours with the green light on, there may be some other problem with the Alarm. The Alarm must be returned for repair or replacement - see **GETTING YOUR ALARM SERVICED** section.

Sensor Fault

The Alarm regularly checks the optical smoke sensor and/or thermistor heat sensor for correct operation. If the Alarm has found a fault with the sensor, it will give 2 short chirps with 2 yellow LED flashes every 48 seconds. In this case, the Alarm must be returned for repair or replacement - see **GETTING YOUR ALARM SERVICED** section.

End of Life

Once the Alarm passes its 10th year of installation, it will give 3 short chirps with 3 yellow LED flashes every 48 seconds to indicate it has reached its end of useful life.

The entire Alarm must be replaced (Also check the replace by date on the label on the side of the Alarm). Disconnect the mains first and replace the Alarm - see ,Removing the Alarm' section.

Maximum Dust Compensation (Ei3016 and Ei3024 only)

The Alarm monitors the dust contamination build-up in the optical smoke chamber and then compensates for it, reducing the possibility of false alarms.

If however, the Alarm gives 4 short chirps with 4 yellow LED flashes when the test/hush button is pressed, it indicates that the Alarm has reached the maximum dust compensation. When this occurs, the Alarm will continue to operate as normal, but there is an increased risk of false alarms caused by dust contamination. If contamination has occurred quickly (e.g. due to dust from carpets being replaced) and the Alarms are sounding, the dust compensation may take some hours to operate. In this situation, remove the Alarm from the ceiling, leave it disconnected for 5 minutes, then reinstall the unit (the air must be clean i.e., dust and smoke free). The dust compensation will now operate quickly, within 60 seconds.

Temporarily Silencing the Fault chirps

If the test / hush button is pressed on an Alarm that is giving fault chirps and yellow LED fault indicator flashes, the Alarm will be silenced (Fault Hush mode) for a period of 12 hours. However, the Alarm will sound / function as normal within that period should it detect Fire (except if the fault detected is a sensor fault). The yellow LED fault indicator will continue to flash as before to indicate the fault is still present. This is a useful feature should the fault occur at night as it keeps the disturbance at a time when people in the building are trying to sleep to a minimum. The fault chirps will return 12 hours later. A low backup battery fault and an end of life fault can be hushed as often as required.

A sensor fault condition can only be hushed once.

<p>Your Alarm does not sound when you press the test/hush button</p>	<ul style="list-style-type: none"> • Check the Alarm is secured correctly on the mounting plate. • Wait 15 seconds after connecting the power before button testing. • Hold button down firmly for at least 10 seconds. • If the Alarm does not sound, then your Alarm must be returned for repair or replacement - see GETTING YOUR ALARM SERVICED section.
<p>Your Alarm sounds for no apparent reason</p>	<ul style="list-style-type: none"> • If, when the Alarm sounds, there is no sign of smoke, heat or noise to indicate that there is a fire, you should get your family into a safe place, before you start investigating. <p>Check the house carefully in case there is a small fire smouldering somewhere.</p> <p>Check for smoke, fumes, steam, very hot air etc.</p> <ul style="list-style-type: none"> • Locate the Alarm that sounds and has flashing red LED. • If you have thoroughly investigated and are sure that it is just a nuisance alarm, simply press the Test/Hush button briefly to silence the Alarm for 10 minutes. This will also silence any interconnected Alarms for the same period. When the Alarm is in 'Hush' mode the red LED will continue to flash while it detects the presence of smoke or heat. <p>The Alarm will reset to normal functionality at the end of the 10 minute. If additional silenced time is required, simply push the Test/Hush Button again.</p> <ul style="list-style-type: none"> • If you experience frequent nuisance/false alarms, it may be necessary to re-locate the Alarm away from the source of the fumes or if it continues to sound without smoke or heat being present and cleaning the Alarm does not solve the problem, it needs to be replaced.

<p>Interconnected Alarms do not all sound</p>	<ul style="list-style-type: none"> • Hold test/hush button for at least 10 seconds to ensure that the signal is transmitted to all the interconnected Alarms. • If this is not the case and you have a hardwired interconnection, we recommend you consult a qualified electrician. • If the Alarm is fitted with an RF module for wireless interconnection, check that all Alarms in the the RF system are powered and are house-coded correctly. (see the Ei3000MRF SmartLINK module manual).
<p>Pressing the Test/Hush button does not silence the Alarm</p>	<p>Always make sure that you are pressing the Test/Hush button on the Alarm that sounds with the red LED flashing.</p>
<p>Your Alarm chirps/beeps/ flashes</p>	<p>In standby mode, the Alarm does not sound, beep, chirp or flash. The only light on is the green power LED.</p> <p>The Alarm automatically monitors the battery, sensor and electronics periodically to ensure that all are satisfactory. If a fault has been found, the Alarm alerts the occupier to this via short chirps from its sounder and its yellow LED fault indicator flashes every 48 seconds. The Alarm will also indicate any faults when the test/hush button is pressed.</p> <p>See indicator summary table on the next pages.</p>