

240Vac Photoelectric Smoke Alarm User Manual



Main Power Source	220-240 V AC/50 Hz
Secondary Power Source	DC 9V battery
Interconnecting	Max. 20 units
Operating Temperature	0 °C to 40 °C
Ambient Humidity	≤ 93%
Alarm Volume	≥ 85dB(A)
Sound Pattern	ISO8201
Complies with	AS3786:2014

THIS SMOKE ALARM MUST BE INSTALLED BY A LICENSED ELECTRICIAN IN ACCORDANCE WITH AUSTRALIAN WIRING RULES

- This product must only be used for the purpose described in these instructions and must be installed in accordance with local wiring rules and regulations.

SUGGESTED SMOKE ALARM LOCATIONS

1. Smoke alarms must be installed in accordance with local and national regulations. Please check your State Fire Department requirements prior to installation.
2. As a minimum, smoke alarms should be located between sleeping areas and potential sources of fire such as a kitchen, heater or basement. In single story homes with one sleeping area, an alarm should be installed in the hallway outside the room. In single story homes with two or more sleeping areas, a minimum one alarm for each area is required. In multilevel dwellings, an alarm should be installed outside and inside each sleeping area, in the basement, and on every level of the home.
3. Smoke alarms are best installed as close to the centre of the ceiling as possible. As a minimum, the alarms should be located at least 60cm from walls. If wall mounted, it should be at least 30cm from the ceiling. (Diagram 1.)
4. Larger rooms, in excess of 10m in length, should have multiple alarms installed.
5. For buildings with a peaked, or cathedral type ceiling, the alarm must be installed at least 90cm from the apex. (Diagram 2.)
6. Do not mount the alarm on an external wall of a mobile home, as they may be subjected to excessive heat.
7. Including Smoke Alarms on a circuit with LED Lighting or fans, can cause signal interference, resulting in nuisance alarming or beeping. Smoke alarms should be installed on their own circuit.

Diagram 1.

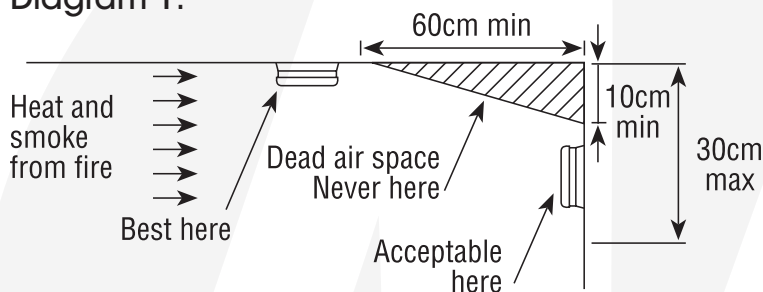
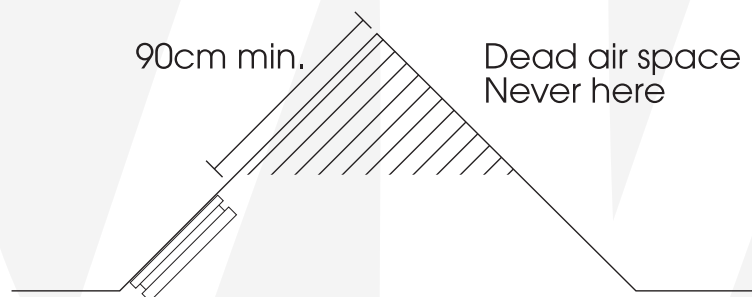


Diagram 2.



AVOID THESE LOCATIONS

1. Kitchens or garages
2. Any area subjected to relative humidity outside the range of 10%-93%, for example bathrooms
3. Any area where the temperature may fall below 0°C or exceed 40°C.
4. Within 1m of any heating or cooling vents
5. In any bug or insect infested area

DEVELOP AN ESCAPE PLAN

As part of your plan, all family members should know and/or practice:

1. The two quickest ways out of each room
2. How to exit from upstairs, for homes with a second story. A rope or chain may be required.
3. An agreed upon meeting place outside, such as the letterbox
4. The sound of the smoke alarm and practice leaving your home when they hear it.
5. A fire drill at least every six months including drills at nights. Practice allows you 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!

WHAT TO DO IF THE ALARM SOUNDS

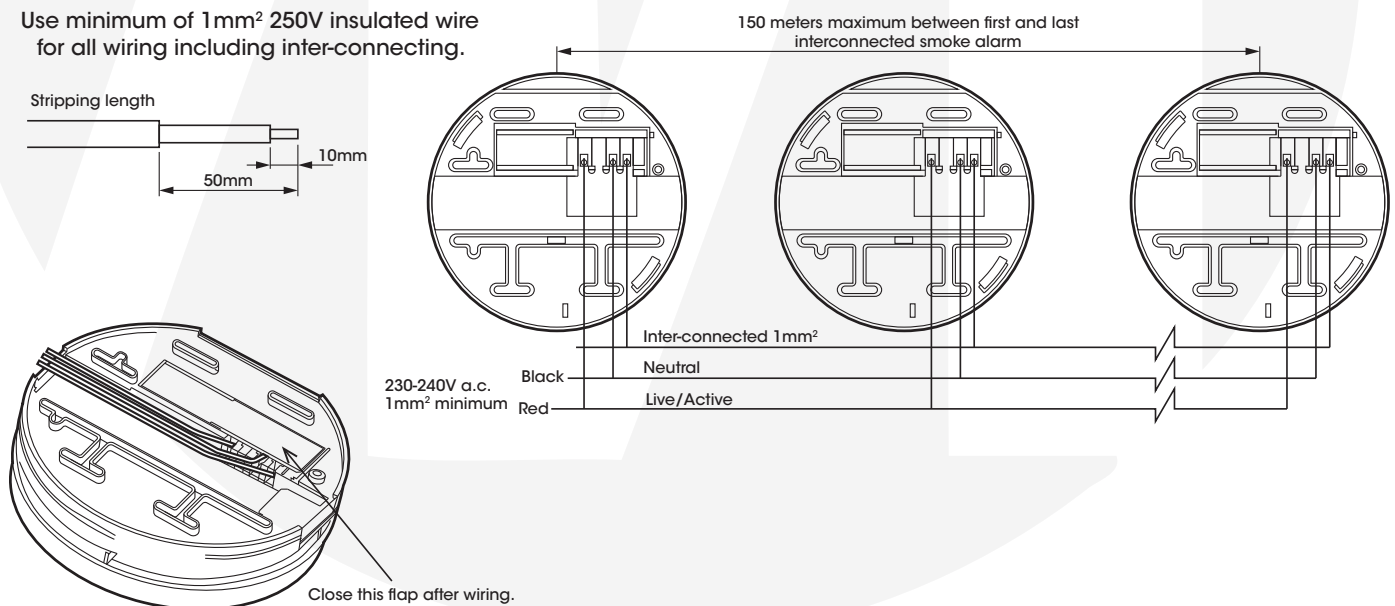
1. Alert any small children and elderly persons
2. Leave immediately by your plan of escape. Every second counts, so don't waste time getting dressed or picking up valuables.
3. In leaving, don't open any inside door without first feeling its surface. If hot, or if you see smoke seeping through cracks, don't open that door! Instead, use your alternate exit. If inside door is cool, place your shoulder against it, open it slightly and be ready to slam it shut if heat and smoke rush in.
4. Stay close to the floor if air is smoky. Breathe shallowly through a wet cloth if possible.
5. Once outside, go to your selected meeting place and make sure everyone is there.
6. Call the Fire Brigade on 000.
7. Don't return to your home until officials say that it is safe to do so. For further information on fire safety contact your local Fire Brigade.

INSTALLATION

All electrical installations must be carried out by a qualified electrician, in accordance with Australian Standards.

1. Once the power has been connected and the battery has been fitted, the smoke alarm is operational.
2. When smoke is detected, the alarm will sound a loud audible alarm, and the red LED will flash. The audible alarm will cease once the level of smoke is reduced.
3. In standby mode, the red LED will flash periodically to indicate that the alarm is operating correctly.
4. The green LED glows when the alarm is connected to main power. This should always be on.
5. The smoke alarm will function correctly as a stand alone alarm, or interconnected with other FSA-25000 alarms
6. When powering up the unit several audible beeps may sound, this is normal operation.
7. All interconnected alarms must be supplied from a single power circuit.
8. Do not connect the interconnect wire to active or neutral.
9. Connect and power the alarm with 220-240VAC only. The smoke alarm is suitable for use with non-pure sinusoidal power sources (eg power derived from square-wave inverters.)
10. All wiring must comply with AS3100 wiring rules.

Use minimum of 1mm² 250V insulated wire for all wiring including inter-connecting.



TESTING

Test the smoke alarm weekly to confirm normal operation

1. Test alarm, by pressing the Test button for 3 seconds, until the alarm sounds.

USING THE SILENCE FEATURE

1. The FSA-25000 has a built in Silence feature. If cooking, or other non-hazardous sources cause the alarm to sound, it can be temporarily silenced by pressing the Silence button. Before pressing, ensure the source of the smoke is identified, and can be confirmed as safe.
2. The alarm then enters a dormant period, for up to 8 minutes (if the alarm condition remains present.) The red light will be on.
3. After the dormant period, the smoke alarm resumes normal operation.

REPLACING THE BATTERY

The backup power for the FSA-25000 is supplied by a 9V. Under normal operating conditions the battery should last for at least 12 months, however, it is strongly recommended batteries are changed no longer than this period.

The alarm has a low battery audible beep, which will sound at 30-40 second intervals – replace the battery immediately when this occurs.

The smoke alarm must be tested by pressing the test button whenever the batteries are replaced.

Use one of the following batteries for replacement:

- GOLDPEAK 1604P, 1604S, 1604G, 1604A, CR-9V • EVEREADY 1222 • ENERGIZER 522 • DURACELL MN 1604
- ULTRALIFE U9VL-J-P • FDK CP-V9J

TROUBLESHOOTING

The following are some simple guides to rectifying issues with your MATElec Smoke Alarm

1. The smoke alarm is intermittently 'chirping.'

This means the battery is low, and needs replacing. MATElec Australia recommends smoke alarm batteries are replaced every 12 months

2. The smoke alarm begins 'Nuisance Alarming.'

There are a number of reasons why a smoke alarm may sound. The very first step, is to ensure there is no danger - carefully check surrounds for any sign of fire or smouldering material.

If your alarm is sounding for no apparent reason, consider the following:

- (a) Is the alarm too close to an air vent? Often the first time an air conditioner or heater is used for a while, it will have gathered dust. This, blowing into the photoelectric chamber of the alarm, can cause nuisance alarming.
- (b) Tiny insects in the photoelectric chamber can cause nuisance alarming.

(c) Momentary spike in power supply.

Normally, once the alarm has recorded a fault, after a recalibration phase, it will resume normal operation. Occasionally, for no apparent reason, the alarm may continue to sound continuously, or at random intervals. If this is the case, you need to try a simple smoke alarm reset. Please see the video with reset instructions on our website at <http://www.matelecaustralia.com.au/electrical-accessories/sensors-and-kwh-meters/smoke-detectors/smoke-alarm-troubleshooting>

3. The red LED is flashing continuously after installing a new battery. After replacing the battery, the alarm may enter a calibration phase, with the red light continuously flashing, and possible intermittent chirps. This can last for up to 10 minutes (usually much less.) The alarm should resume normal operation, with the green light on, and the red light flashing intermittently after this time.

WARRANTY

- The FSA-25000 smoke alarm is warranted for a period of 5 years, to be free of defects in materials or workmanship, under normal use. In the event of a warranty issue, please contact your place of purchase.

Please see the warranty card included with the smoke alarm package, for full details of the warranty.