



240Vac Photoelectric Smoke Alarm

Product Code: FSA-26000

Thank you for purchasing the MATElec FSA-26000 Smoke Alarm.

Please take a few minutes to read this user’s manual thoroughly to familiarise yourself with the operation of the unit before use.



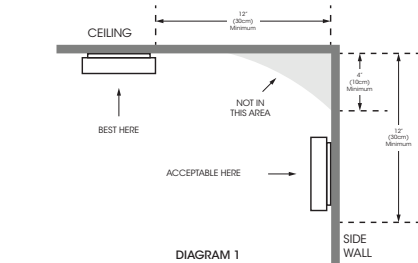
Important information

This smoke alarm MUST be installed in accordance with national and local council building regulations, state fire department requirements and the latest edition of the Australian and New Zealand wiring Rules AS/ NZS 3000. Building codes and regulations may vary from each state jurisdiction.

Product

Main power source	220-240 V AC/50 Hz
Secondary power source	DC 9V battery
Interconnection	Max. 20 units
Operating temp.	0°C to 40°C*
Ambient humidity	≤ 93%
Alarm volume	≥ 85dB (A)
Sound pattern	ISO8201
Complies with	AS3786:2014

*High temperatures can impact battery life.



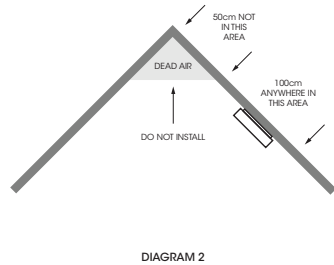
Install locations

NOTE: this information serves as a guide only. Ensure units are located and installed as per your local building codes and regulations.

- 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.
- Wherever possible Smoke alarms should be installed on the ceiling and as close to the centre of the room as possible. (Avoiding dead air spaces, an area in which trapped hot air will prevent smoke from reaching the alarm). (Diagram 1).

Smoke alarms should not be placed within:

- 300mm of a corner of a ceiling and a wall
 - 300mm of a light fitting
 - 400mm of an air-conditioning vent
 - 400mm of the blades of a ceiling fan.
- Larger rooms, in excess of 10m in length, should have multiple alarms installed.
 - For buildings with a peaked, or cathedral type ceiling, the alarm must be installed at least 50cm from the apex (Diagram 2).
 - Smoke alarms must be paired (interconnected) with every other smoke alarm in the residence so they all activate together.



Avoid these locations

Smoke Alarms are sensitive electrical equipment by nature.

To reduce the likelihood of nuisance or repetitive false-triggering smoke alarms, avoid installing:

- Near cooking appliances, or close to heating and cooling vents or appliances.
- In dusty or dirty areas.
- In areas of excessive heat (eg, Garage)
- In areas subjected to relative humidity outside the range of 10%-93% eg bathrooms, laundries.
- Avoid installing where bugs or insects are present.

Installation

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

- Remove the battery tab/cover.
- Complete wiring termination as per wiring diagram. The Green LED will illuminate once power is connected.
- When powering up the unit several audible beeps may sound. This is normal operation.
- Once mains power has been connected and the battery has been fitted. (with tab removed) the smoke alarm is operational.
- Place the bracket in the desired / recommended location and mark mounting holes. Mount the unit using the fixings provided.

NOTE: All interconnected units must be supplied from a single power circuit. (Hard-wired interconnection must not be made across more than one circuit)

The smoke alarm can function as a stand-alone unit or interconnected with other MATElec FSA-26000 units.

Not suitable for use with non-pure sinusoidal power sources.

NOT COMPATIBLE for use with Wireless Smoke Alarms - Due to different battery voltages, units will not pair/function if interconnection is attempted.

Testing

Test the smoke alarm regularly to confirm normal operation.

- Test unit, by pressing the TEST button for 3 seconds, until the alarm sounds. Alarm will sound for approximately 10 seconds and then revert to normal operation. (No sound)

NOTE: Smoke alarms CANNOT be HUSHED while in TESTING mode.

When replacing battery, ensure unit is tested afterwards to confirm correct operation.

Operation

- The green LED remains illuminated when the unit is connected to mains power. This should always be on.
- In standby mode, the red LED will flash (very faintly) periodically to indicate that the unit is operating correctly.
- When smoke is detected, the unit will sound a loud audible alarm, and the red LED will flash continuously. The alarm will silence once the presence of smoke is removed.

Hush function

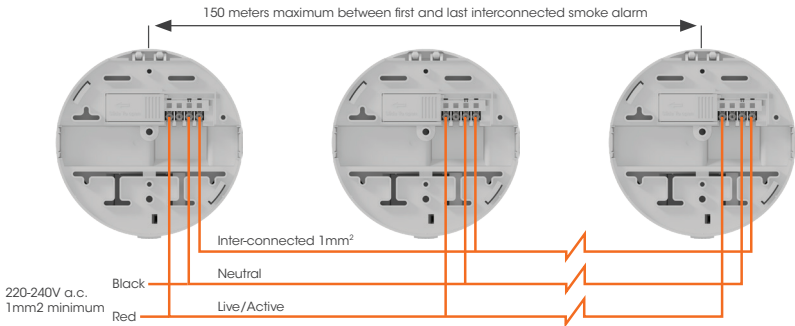
NOTE: If the alarm sounds, first ensure there is NO DANGER. Do not assume it is a false alarm. Carefully check residence for the presence of smoke.

- While the unit is in ALARM mode, pushing the HUSH button for 2 seconds will silence the smoke alarm for approximately 8 minutes. The RED LED will remain on to indicate the unit is running in HUSH mode.
- After approximately 8 minutes the unit will resume normal operation. If smoke or false-trigger source is still present, the unit will alarm again.
- The hush mode feature can be repeated as many times as necessary.

Wiring instructions

- All interconnected alarms must be connected to the same sub/circuit
- A common Neutral must be used for interconnect to function
- Do not connect the interconnect wires to Active or Neutral.

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



Reset to factory

Isolate mains power by pushing the 'push to open' tab on the side of the unit and detach the head unit from the base.

Remove and replace the battery.

Press and hold the TEST button for a total of 15 seconds.

If multiple units are interconnected, replicate steps 1-2 with all additional units.

Very important – Do not replace battery and/or reattach head unit to base of any units until all units have had steps 1-2 completed.

The units have now been reset to factory state.

When all interconnected units have been reset as above, replace battery and reattach head unit to base on all units.

Replacing the battery

- Isolate mains power by pushing the 'push to open' tab on the side of the unit and detach the head unit from the base.
 - Remove and replace the battery.
- NOTES: The alarm has a low battery audible beep, which will sound at 30-40 second intervals – replace the battery immediately when this occurs.*
- When replacing battery, ensure unit is tested afterwards to confirm correct operation.*
- Use one of the following batteries for replacement:*
- Energiser 522
 - Duracell MN1604, MX1604
 - Gold Peak 1604P, 1604S, 1604G, 1604A & CR-9V.
 - Everyday 1222
 - Ultralife U9VL-JP
 - FDK CP-V9J.

Maintenance

Periodically clean the smoke alarm by carefully vacuuming the outside of the unit to remove any dust build up and wipe gently with a damp cloth.

Do not spray any cleaning liquids directly onto/into the smoke alarm. A low-pressure gentle air wash can be used to remove dust build up around the unit.

Warning

Aerosol products, such as Smoke Alarm Test Smoke, (Although Photoelectric smoke detectors are less susceptible to trigger by this method) can be used to test the integrity of smoke alarms by simulating smoke conditions. If using an aerosol smoke alarm testing product, from a distance of 1-2 metres, spray the can towards the smoke alarm for 2 seconds. Smoke alarms with built in time delay circuitry may require additional spray to trigger the alarm.

Excessive spraying at close range may permanently affect the smoke alarm's sensitivity.

Warranty

This MATElec Smoke Alarm is designed for use in residential dwellings and is warranted as such.

The FSA-26000 smoke alarm is warranted for a period of 7 years, to be free of defects in materials or workmanship, under normal use. In the event of a warranty issue, please contact MATElec Australia via email, at info@matelecaustralia.com.au

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

Warranty will be void if differing brands are used in sequence/interconnection of the MATElec smoke alarms.

Troubleshooting

- The following are some simple guides to rectifying issues with your MATElec Smoke Alarm.
- The smoke alarm is intermittently 'chirping.'**
 - The smoke alarm begins 'Nuisance Alarming.'**
- NOTE: If the alarm sounds, first ensure there is NO DANGER. Do not assume it is a false alarm. Carefully check residence for the presence of smoke.*

- There are a number of reasons why a smoke alarm may sound. If your alarm is sounding for no apparent reason, consider the following:
- (a)** Is the unit too close to an air vent or wet area?
- As the unit has a very sensitive smoke chamber, strong air flows steam or water particles can interfere with normal operation causing nuisance alarming. Consider alternative placement of the unit if this issue persists.
- (b)** Presence of Insects in, on or near the unit in the photoelectric chamber can cause nuisance alarming - See the 'Maintenance' section of this guide.
- (c)** Dust / pollution build up - See the 'Maintenance' section of this guide.Heat and/or Humidity threshold exceeded.
- Climate extremes can cause the units to nuisance alarm.This is a common issue in unoccupied residences or rooms that remain closed for long periods, especially when too hot and/or humid. Ensure regular fresh cool air is supplied to areas with smoke alarms, at all times. (Eg – by opening the door of a room)
- (d)** Spike/shortage in power supply.
- Units are built to handle minor changes in power supply however like most electrical products, can be affected by these events (Eg, power cut or lighting strike) and may cause damage or nuisance alarming.
- If this is the case, perform a smoke alarm reset. See the Reset to factory default in this guide.
- (e)** Electro Magnetic Interference (EMI)
- The MATElec unit has EMI filtering built into the unit however may be susceptible to some forms of additional EMI. This can be in the form of fluorescent fittings, LED downlights, heavy inductive loads external sources such as Solar Inverters and A/C compressors, security sensors and lighting or a combination of these sources.
- Where possible, it is best practice to install smoke alarms on a separate circuit from all other electrical circuits.
- If EMI issues cannot be resolved by addressing all suspect triggers outlined above, installing an in-line EMI filter may solve the issue.

- The red LED is flashing after installing a new battery.**
- After replacing the battery, the alarm will enter a calibration phase, with the red light flashing, and possible intermittent chirps.This is normal, and can last for approximately 10 minutes. If the red light remains flashing long after this time, check the battery is new and operational.
- If the issue persists perform a smoke alarm reset. See the Reset to factory default setting' in this guide.
- If the issue still persists the unit may be faulty and require a replacement.

Distributor



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