



Firetronics Pty Ltd

FIRETRONICS PHOTO ELECTRIC SMOKE ALARM

Operation instruction and Manual

**PROUDLY
AUSTRALIAN MADE**

We recommend that smoke alarms are fitted in every room and outside all sleeping areas and on every level of a home.

If the smoke from a fire can not reach the smoke alarm or an incorrectly positioned smoke alarm, the smoke alarm may not Activate.

No one type of alarm is considered suitable for all locations. We recommend installation of both Ionization and Photo Electric smoke alarms for best protection.

Ionization smoke alarms may detect invisible fire particles (associated with fast flaming fires) sooner than photoelectric alarms.

Photoelectric sensing smoke alarms may detect visible fire particles (associated with slow smouldering fires) sooner than ionization alarms.

Home fires develop in different ways and are often unpredictable.

They do not sense heat, flame or gas.

OPERATION INSTRUCTION AND MANUAL

Location of your smoke alarms

Install one smoke detector in each bedroom and hallway/passageway+one above every stairway for best protection.

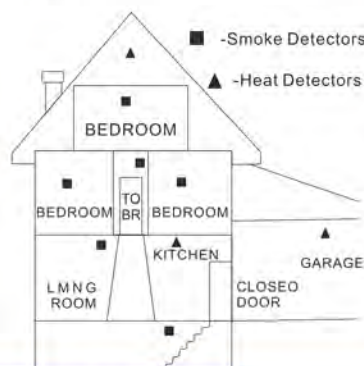
Do not mount your smoke detector in locations where they may encounter high or low temperature extremes/high humidity.

When installing the smoke alarm choose a spot as close to the centre as possible, at least 250mm from any wall and 600mm from any corner.

Do not install in dead air space (e.g. mount at least 90cm from apex of A sloping or peaked ceiling.) Ensure that you install smoke alarms at least Every 7.5 meters apart in hallways and rooms at least 3 meters from each bedroom.

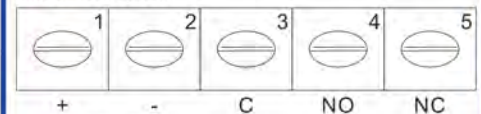
Do not install smoke detectors in the following locations.

Bathrooms, Kitchens, Garages, Near air-condition vents, windows.



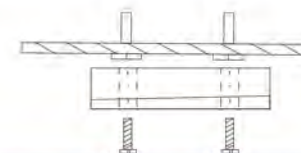
FOR SURFACE MOUNT MODEL SMOKE ALARMS REFER TO BELOW DIAGRAM

Connect Fire/security wiring to the terminal block in the back of the Detector by removing the back base cover and follow the directions for connections as below (note that some systems will require installation of an end of line resistor-see your control panel for more information).



12-24VDC

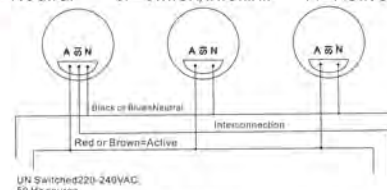
- I) Use base to mark out hole positions.
- II) Drill 5mm holes through plasterboard, etc.
- III) Insert plastic anchors and tap with a hammer until flush with the surface.
- IV) Place the screws through the base, insert into the plastic anchors, and tighten.



NOTE TO INSTALLERS

The 240VAC smoke alarm will be damaged and warranty will be void if the unit is incorrectly wired. Check to make sure green mains indicator light is on.

N=Neutral SI=Switch/Interlink A=Active



The active (brown) wire should be connected to the terminal marked A-active.

The Neutral (blue) wire should be connected to the terminal marked N-neutral.

To interconnect the smoke alarms connect all the SI terminals together.

Only use Firetronics smoke alarm when you need smoke alarms to be interconnected together.

A maximum of 1000 meters of wire can be used, maximum resistance between each interconnection should be 48 ohms.

After connecting all the interlinkable smoke alarms test the first alarm by pressing down and holding the pushbutton for approx 10 to 15 seconds.

The first smoke alarm will sound and then the other units will follow and the red alarm LED on the smoke alarm being tested will be the only unit that will flash at one second intervals. Check all alarms similarly.

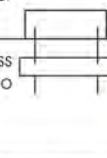
The smoke alarm is not to be earthed so no connection is to be made to terminals or wires marked with the letter E, the symbol or coloured green or green and yellow.

Installation Instructions

240VAC smoke alarms should be installed by a qualified electrician in accordance with the regulations for electrical installations.

240VAC Models

Move the header shunt across on to the two headers to activate the smoke detector.



Move the header shunt across on to the Two headers to activate the smoke alarm. Otherwise the smoke alarm will not work.

For 240VAC model smoke alarms connect to a continuous 240VAC 50 Hz circuit.

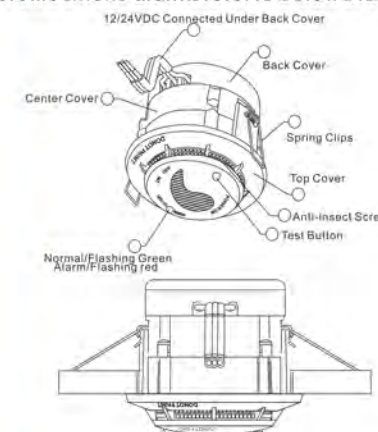
Ensure that unit cannot be inadvertently overridden by any switching device. Interlink smoke alarms must be connected to the same final sub-circuit.

It is recommended that smoke alarms be wired to the light circuit or circuit not used by anything else at the distribution board.

Use standard 1.5mm lighting wire for connection to the smoke alarms.

For Recessed/low

profile smoke alarms refer to below Diagram



Please cut a 90mm down light size hole in the ceiling making sure that it is free of any insulation material for proper air flow/circulation above the smoke alarm.

To fit the smoke alarm after connection of wiring simply push through the hole, same as a down light fitting.

FIRETRONICS SMOKE ALARM MODELS AND SPECIFICATION

Model FPE-H	9V battery operation
Model FPE-HTX	9V battery operation plus Transmitter for connection to smart caller or INS health care system.
Model FPE-MTX	240VAC operation with an inbuilt rechargeable battery back up, interlinkable Plus Transmitter for connection to Smart caller/INS health care system. 50HZ 40mA, 0.8W
Model FPE-M	240VAC operation with an inbuilt rechargeable battery back up, interlinkable 50HZ 40mA, 0.8W
Model FPE-MRLY	240VAC operation with an inbuilt rechargeable battery back up, and NC/NO relay output 50HZ 40MA, 0.8W Not Interlinkable

Model FPE-MRLI	240VAC operation with an inbuilt rechargeable battery back up, and NC/NO Relay out 50HZ 40MA, 0.8W Interlinkable
Model FPE-N	12-24VDC operation with a NO/NC 30V relay output 1A Relay Contact.
Model FPE-NP	12-24VDC operation for connection to Firetronics Micro 2001 Panel
Alarm Reset	Automatic when smoke clears from chamber.
Alarm Display	Flashing Red LED for all of models.
Sounder Level	85dB at three meters minimum.

OPERATION AND L.E.D

The Firetronics smoke alarm Models FPF-M, FPE-MRLI, FPE-MRLI and FPE-MTX are a 240VAC connection and require installation by a qualified (licensed) electrician, in accordance with current Building Code of Australia (BCA) Regulations and other local or building codes that may apply.

- Hard wired smoke alarms require a constant 240VAC supply.
- Battery Back-up models FPE-H and FPE-HTX is a 9 volt battery supply and requires a healthy battery to operate.
- Mains supply is indicated by a constant green L.E.D. (mains) indicator.

- When your smoke alarm is correctly installed and connected to the mains supply (240VAC Models only), the green L.E.D. light will be ON (for Surface mount models the Green LED Mains ON, is on the Base & is indication of 240VAC connection, for recessed models the Green LED ON is on the detector face, & this is indication of 240VAC connection).

Regularly check and ensure that the green L.E.D. is ON - if not, check the circuit breaker connection, if in doubt, consult an electrician, if the smoke alarm chirps every 40-50 seconds it may also indicate the Mains connection has been disrupted.

- The green L.E.D. will blink every 30-40 seconds to indicate the smoke alarm is operational. If the smoke alarm senses smoke, its sounder will activate and sound an 85dB horn. The RED L.E.D. will flash rapidly on the smoke alarm. (other interconnected smoke alarms will also sound to warn those in other parts of the property). This will continue until the sensor chamber is clear of smoke.
- Smoke alarms will only function if properly selected, located, installed and maintained as per instruction manuals.
- If there is any question to the cause of an alarm, you should check to ensure the alarm is not due to an actual fire, and your dwelling should be evacuated immediately.
- Smoke alarms can only operate correctly if smoke particles reach the installed smoke alarm. Ensure you have adequate selection of smoke alarms installed and installed in correct positions around your premises.

Hearing impaired occupants should consider fitting strobe light accessories to also provide a visual alarm.

TESTING

*Press and hold the test button to test the smoke alarm. Do not use naked flames as this does not replicate smoke and may cause damage to the smoke alarm or ignite other materials and start a fire.

Test all your smoke alarms weekly - remember only a working smoke alarm will sound alarm in case of FIRE.

Press and hold the test button until the smoke alarm sounds. All interconnected alarms should also sound. (Do not stand too close to the alarm during testing - hearing may be damaged).

Low Battery Indicator

*If the alarm chirps every 45 seconds, it may be an indication that the battery back up in the base has failed and the whole base (240VAC only) requires replacement. For 9V battery operational smoke alarms, the battery back up must be replaced immediately so the smoke alarm will be operational.

DO NOT INSTALL SMOKE ALARMS in below areas.

*Areas near appliances or where normal combustion regularly occurs (near Fire a Fire Place, hot water heater etc.).

*In areas with high humidity, like bathrooms, near dishwashers or washing machines or Clothes dryers. Install at least 3 meters away from these areas.

*Air returns or heating and cooling supply vents. Install at least 900mm away from these areas. The air flow could blow smoke away from the smoke alarm.

*In rooms where temperatures may fall below 5°C or rise above 45°C.

*In extremely dusty, dirty, or insect-infested areas where loose particles interfere with smoke alarm operation.

MAINTENANCE

*Remember your smoke alarm is a safety device. Spend a few minutes each month by checking the operation of the smoke alarm. Press and hold the test button until the smoke alarm sounds. All interconnected alarms should also sound. (Do not stand too close to the alarm during testing - hearing may be damaged).

Use a vacuum to clean off any excess dust off the grill where dust/falc etc can enter to reduce the likelihood of nuisance alarms.

*Never paint or expose smoke alarms to water - This will damage the smoke alarms.

(If painting or building renovation work is being carried out close to the smoke alarms, place a temporary cover over the smoke alarms or cover with a plastic bag).

You must ensure the smoke alarms are uncovered once work has been completed so that they are operational again.

It is recommended that smoke alarms should be replaced every 10 years or sooner if not operating correctly.

Smoke alarms can help save lives by providing an early warning of a fire, they cannot prevent a fire. They do not prevent property damage.

What to do in an Emergency

*If an alarm sounds without anyone pressing the test button you have a potential emergency, don't panic you will need to think clearly to ensure all family members escape as soon as possible. Never stop to collect belongings etc. they are replaceable. Asset can be replaced, Lives Can Not.

*Check the temperature of door handles or doors to check if hot - if hot do not open them - a fire will be raging the other side of the door, find an alternative escape route.

*Keep doors/windows closed to contain the fire after you have passed through them.

*Call 000 from a neighbour's phone or if you have a mobile phone with you.

*Do not re-enter the property until it is safe to do so.

Develop and practice an escape plan

Make a floor plan of your premises and draw an escape plan in case of fire.

Have a family meeting and familiarise everyone with the sound of the smoke alarm. Visit the Fire brigade web site for more information.

LIMITED WARRANTY CONDITIONS

Firetronics Pty Limited warrants that this smoke alarm is free from defects in Material and workmanship for a period of two years from date of purchase.

Subject to the following conditions of warranty:

- Proof of purchase receipt/invoice must accompany the faulty units.
- The warranty is conditional on the unit being installed by a licensed and Qualified electrician (240VAC models) and in accordance with the instructions supplied.
- The unit must not be defaced, changed or tampered with or damaged by accident, short circuited, loaded beyond rating or otherwise damaged by improper installation and operation.

4. The obligation of Firetronics Pty Limited under this warranty is limited to service/repair or replacement of the device when the unit is returned to us freight prepaid. Firetronics Pty Limited will not be responsible for loss or damage during shipping.

5. Firetronics Pty Ltd does not accept liability for any direct or consequential Damage or loss, including but not limited to, property or personal injury, loss or other expenses arising from misuse or installation and operation of their products.

6. The unit must be maintained/regularly cleaned and tested in accordance with the supplied instructions.

7. All other warranties, whether expressed or implied, and whether arising by virtue of Statute or otherwise are hereby excluded, apart from warranties under Australian Law. No such warranty shall extend beyond our terms of warranty unless so specified by Australian Law.

8. This warranty does not cover any battery that may be supplied with or included with smoke alarms.

There are no user serviceable parts in this smoke alarm. Please do not open or tamper or attempt repair of the smoke alarms.

AUSTRALIA WARRANTY CLAIMS:

Where the goods are offered for sale in Australia, the benefits to the consumer given by this warranty are in addition to other rights and remedies of the consumer under the Australian Consumer Law and other applicable laws relating to the goods. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

The Firetronics range of smoke alarms are proudly designed and manufactured in Australia by Firetronics Pty Limited.

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Smoke alarms comply to

AS 3786

