Information on Smoke Alarms

WHAT SMOKE ALARMS CAN DO

Smoke alarms can only HELP protect your family and home against loss from a fire. For maximum protection install smoke alarms in every bedroom, and every other area of the home, making sure the people in the home will be able to hear and respond to the alarm sound.

WARNING – Smoke alarms may give you a warning of fire and smoke but only if you install, use and maintain them as recommended in this instruction leaflet.

WHAT SMOKE ALARMS WILL NOT DO

A smoke alarm will not work without power – Your smoke alarm needs mains power (220-240V) and a good battery (9V) that is installed correctly in order to operate.

A smoke alarm will not sense a fire when smoke cannot reach the unit – If a fire starts in a chimney, wall, roof, the other side of a closed door or any other isolated area, the smoke alarm may not sense the smoke and may not give a warning. If you do not have a smoke alarm in the bedroom and sleep with the door closed, a fire inside the bedroom may not sound an alarm located in another room. Therefore it is recommended that a smoke alarm be installed inside and outside all bedrooms. A smoke alarm will not promptly sense a fire except in the area in which the smoke alarm is installed.

All types of smoke alarms have limitations - No type of smoke alarm can sense every kind of fire or smoke every time.

CHOOSING YOUR SMOKE ALARM

Fire types – A photoelectric alarm like the Clipsal 755PFM (this unit) responds faster to large smoke particles, while an ionisation alarm like the Clipsal 755FM responds faster to smaller smoke particles. Smouldering fires produce more large particles, so this type of fire will be more quickly detected by the 755PFM photoelectric alarm. Flaming fires produce more small smoke particles and this type of fire will be more quickly detected by an ionisation alarm like the 755FM. The type of fire likely to occur in the location is therefore an important consideration when choosing which type of smoke alarm to install.

How a photoelectric alarm works – A photoelectric detector uses a special light source and a light sensor to measure smoke density. The light source is constantly on but the light beam is angled away from the light sensor. When smoke enters the chamber, the smoke particles scatter some of the light toward the sensor. As the smoke density increases, more light is scattered towards the sensor. When the amount of light scattered into the sensor reaches a predetermined threshold, the unit goes into alarm mode and the alarm will sound to alert occupants.

Nuisance alarms – Because an ionisation type alarm is sensitive to small smoke particles, it will respond more quickly to particles typically given off during cooking, even where there may be no danger. On the basis of this "nuisance" alarming, consideration should be given to installing photoelectric alarms like the 755PFM near kitchen areas. While the home owner will lose some warning time in a fire that generates smaller smoke particles, they will also reduce the occurrence of the nuisance that results in a lot of smoke alarms being disabled.

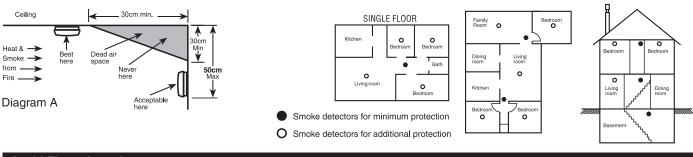
Using a smoke alarm in a smokey area like a kitchen or in a high humidity area such as a bathroom can cause false alarms. Do not remove the battery to quieten the alarm, or take the alarm down. A smoke alarm will not protect you if it is not powered or if it is not there. A smoke alarm may not always warn you about fires caused by the following:

Smoking in bedChildren playing with matches or lighters

Incorrect storage of flammable materials
Over-loaded electrical circuits.

Recommended Location of Alarms

- Locate the first alarm in the immediate areas of the bedrooms. Try to protect the exit path as the bedrooms are usually furthest from an exit. If more than one sleeping area exists, locate additional alarms in each sleeping area.
- Locate additional alarms to protect any stairway, as stairways act like chimneys for smoke and heat.
- Locate at least one alarm on every floor level.
- Locate an alarm in any area where a smoker sleeps or where electrical appliances are operated in sleeping areas.
- Smoke, heat and other combustion products rise to the ceiling and spread horizontally. Mounting the detector on the ceiling in the centre of the room places it closest to all points in the room. Ceiling mounting is preferred in ordinary residential construction. However, in mobile homes, wall mounting on an inside partition is required to avoid the thermal barrier that may form at the ceiling.
- When mounting alarm in the ceiling, locate it a minimum of 30cm from a side wall and 30cm from any corner (see Diagram A).
- When mounting alarm on a wall, use an inside wall with the alarm a maximum of 50cm below the ceiling and at least 30cm from any corner (see Diagram A).



Avoid These Locations

- Do not install a smoke alarm within one metre of heating and cooling supply vents or within one metre of return air or fresh air vents. Smoke may be blown away from the smoke alarm by the supply vents, or could be diffused or reduced by being diverted into the return air vent.
- Do not install your smoke alarm in an area where the temperature may fall below 5°C or rise above 45°C. Smoke alarms are designed to work safely only within these temperature ranges and failure to alarm, improper alarms or nuisance alarms may result from operation outside these temperature limits.
- Do not install a smoke alarm in a damp or very humid area such as bathrooms with showers, where the normal humidity may rise above 90%. Above this level, moisture may condense inside the smoke chamber and cause false alarms. The smoke alarm may also become unstable below 10% relative humidity.
- Do not install a smoke alarm in an area where particles of combustion are normally present, such as garages or kitchens etc, as this can cause false alarms.
- Do not install a smoke alarm in dusty or dirty areas, such an installation cannot be relied on. An accumulation of dust and dirt in the sensing chamber may block the openings and prevent an alarm, or may get inside the alarm and cause false alarms. If a smoke alarm is required in such an area, vacuum it frequently and test it according to the 'Operation and Testing' section.
- Do not install a smoke alarm in the dead air space in the corner where the wall meets the ceiling. If in doubt as to the exact location of mounting, for your safety, contact your local fire department for help choosing a location.
- Do not install a smoke alarm where bugs or insects are present before eliminating or minimising the problem. Although all smoke alarms built since 1985 are made to prevent bugs from entering the detection chamber, bugs may build up on chamber openings and prevent smoke from entering. If bugs are present, vacuum the unit frequently as described in the maintenance section.
- Do not install a smoke alarm within one metre of a fluorescent or compact fluorescent lamp. Electrical 'noise' may cause nuisance alarms.

INDICATOR	SIREN	MEANING
Alarm sounds and the red LED is blinking rapidly.	Smoke has activated the smoke alarm.	Vacate the building and call the fire brigade (see 'what to do if alarm sounds').
Green LED ON.	240V mains power ON.	Normal operating condition.
Green LED OFF. Mains power may be disconnected.	240V mains power OFF.	Check mains power ON. Main circuit breaker may have tripped. Wiring could be reversed.
Red LED flashes every 40 to 60 seconds.	Red LED indicates the smoke alarm is functioning correctly.	Normal operating condition.
Red LED not flashing.	Battery may be reversed. No battery present. Battery completely flat.	Reinstall battery around the correct way or replace battery.
Audible Beep is heard once every minute.	Low battery indicator is warning the battery needs replacing.	Replace 9V battery with a specified new battery.
When Test / Hush button is pressed for three seconds alarm sounds briefly.	The smoke alarm horn is indicating all electronic circuitry, horn and battery are working.	Normal test condition. Test weekly to ensure proper operation.
When Test / Hush button is pressed for three seconds alarm does not sound.	Check green LED is ON and red LED is flashing once every 40 to 60 seconds.	Turn mains power back ON and replace battery. If smoke alarm still won't Test, replace.
Smoke alarm is sounding, you press the Test / Hush button and it stops.	Hush feature has been activated for 10 minutes providing the smoke density does not increase.	Normal condition. Clear the smoke as soon as you can.
Smoke alarm is sounding and you press the Test / Hush button but nothing happens.	Smoke density is too high for the Hush feature to activate.	Vacate the building and call the Fire Brigade. (see 'What to do if Alarm Sounds').
Smoke alarm body will not close on the base.	9V battery not present.	Install a 9V battery.
Red LED is off and alarm is sounding.	Smoke has activated an interconnected alarm, located somewhere else in the building.	Vacate the building and call fire brigade. In the event of a false alarm [use caution], locate the source of the alarm. This unit will have its alarm sounding and red LED blinking rapidly.

Maintenance, Repairs and Service

Maintenance: It is recommended that the smoke alarm is inspected monthly to ensure it is free from dirt, dust and insects. The alarm can be vacuumed or brushed with a soft brush to remove dust, dirt or kitchen grease that has accumulated. A small amount of surface spray around the alarm should deter insect ingress.

ALWAYS TEST THE SMOKE ALARM AFTER CLEANING.

Repairs / Service: If the smoke alarm is defective in any way, do not tamper with the unit. Unit does not contain any user serviceable parts except the battery. **Disposal:** As the alarm does not contain any radioactive material, disposal with normal rubbish is permitted in Australia and New Zealand.

Limited 5 Year Warranty

Clipsal Australia Pty Ltd warrants your product to be free from defects in material and workmanship for a period of five years from the date of purchase. The warranty applies only to the original consumer purchaser and only to products used in normal use and service. If this product is found to be defective, Clipsal Australia's only obligation, and your exclusive remedy, is the repair or replacement of the product, at Clipsal Australia's discretion, provided that the product has not been damaged through misuse, abuse, accident, modifications, alteration, neglect or mishandling (excluding any labour cost relating to removal or reinstallation of product and transport cost). This warranty shall not apply to any product, which is found to be improperly installed, setup or used in any way not in accordance with the instructions supplied with the product. This warranty shall not apply to any batteries used in the product or to any damage caused by such batteries. If your product fails to operate satisfactorily, please return it to the point of purchase or Clipsal Australia Pty Ltd.

CLIPSAL AUSTRALIA PTY LTD DOES NOT WARRANT AND SPECIFICALLY DISCLAIMS ANY WARRANTY, WHETHER EXPRESSED OR IMPLIED, OF FITNESS FOR A PARTICULAR PURPOSE OTHER THAN THE WARRANTY CONTAINED HEREIN. NO IMPLIED WARRANTY ON THIS PRODUCT CREATED BY STATE LAW, SHALL EXTEND BEYOND THE TERM OF THIS WARRANTY UNLESS SUCH LAW OTHERWISE PROVIDES. CLIPSAL AUSTRALIA PTY LTD SPECIFICALLY DISCLAIMS ANY LIABILITY AND SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL LOSS OR DAMAGE, INCLUDING, BUT NOT LIMITED TO, DAMAGES TO ANY EQUIPMENT WITH WHICH THIS PRODUCT IS USED.

No agent, representative, dealer or employee of the company has the authority to increase or alter the obligations or terms of this warranty. Clipsal Australia Pty Ltd reserves the right to change specifications or designs described in this manual without notice and without obligation.

This smoke alarm complies with: AS3786 AS/NZS3100 Australian Electrical Authority Certificate of Suitability CS/1253/S





by Schneider Electric

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FIRESTEK[®] SMOKE ALARM 755PFM



by Schneider Electric

PLEASE LEAVE THESE INSTRUCTIONS WITH THE HOME OWNER, TO BE RETAINED FOR THE LIFE OF THE ALARM. THIS SMOKE ALARM REQUIRES INSTALLATION BY A LICENSED ELECTRICAL CONTRACTOR.

Read All Instructions Before Installation and Operation

Regular testing of this smoke alarm is necessary to ensure the unit is functional and that the battery is in good condition. We recommend the smoke alarm be replaced after 10 years of normal service. DO NOT try to open or repair the smoke alarm yourself. No user serviceable parts are inside.

Specifications

Main Power Source:	220-240V a.c. 50Hz	
Secondary Power Source:	9V d.c. carbon zinc or alkaline battery	
Operating Current:	35mA	
Battery Life:	One year approximately	
Sensing Type:	Photoelectric. This alarm contains NO radioactive material	
Operating Temperature:	5°C to 45°C	
Ambient Humidity:	10% to 90%	
Interconnecting:	40 alarms over 150 metres maximum	

Terminal Provisions:	Active, Neutral, Loop and Interconnect terminals, each accommodates 2 x 2.5mm ²
Horn Level:	85dB at three metres minimum
Visual Indicators:	Green LED for mains power ON Red LED for warning and low battery indication
Approvals:	ActivFire Certified
Complies with:	AS3786:1993 AS/NZS 3100:2002
Certificate of Suitability:	CS/1253/S

IMPORTANT OVERVIEW OF THE INSTALLATION PROCESS

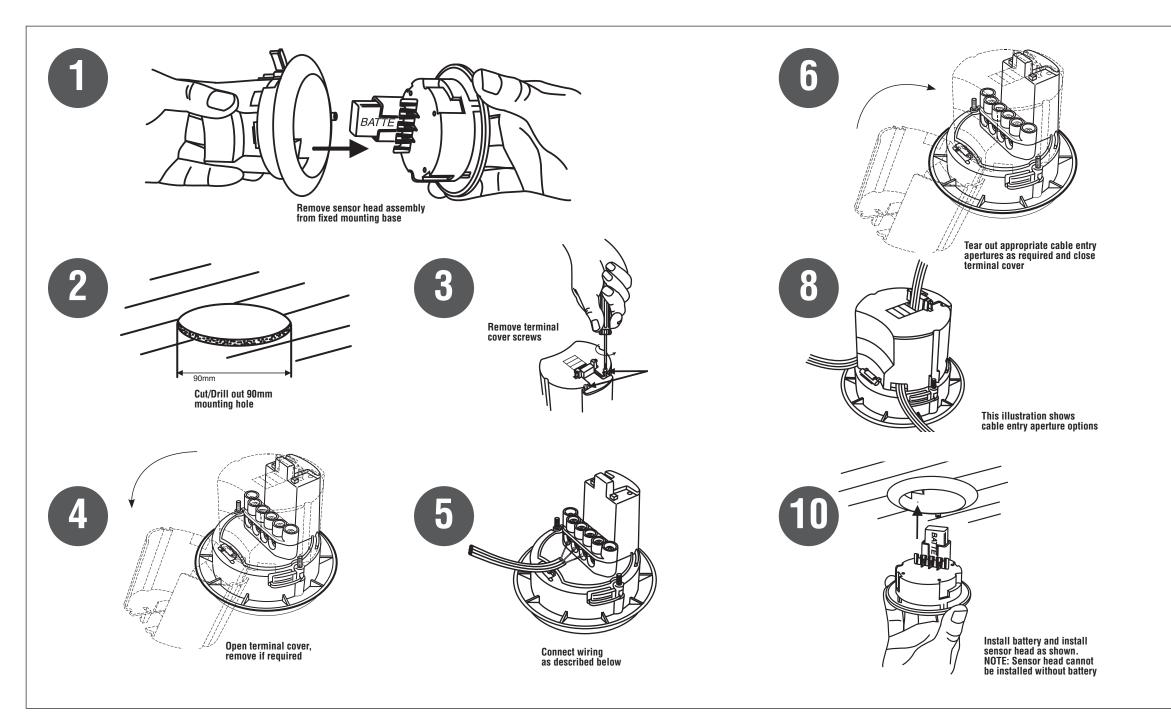
Choose a location for your new FIREໍ່STEK flush mount smoke alarm

flush mount smoke alarm

OPERATION GUIDE		
Red Indicator	Siren	Meaning
Fast flash	On	Local alarm
Medium flash	Off	Unit in hush mode
Slow flash	Off	Normal operation
	Chirps	Low battery condition
Off	On	Remote alarm
	Off	All power lost
Green Indicator	Siren	Meaning
On	N/A	Mains power OK
Off	N/A	Mains power lost
See installation manual for further details		
When alarm beeps at approximately one minute intervals, replace battery		

INSTRUCTIONS AND INFORMATION





Electrical Installation

UNIT WIRING DETAILS

- 1. Strip the Active, Neutral and Interconnect (if used) wires back.
- 2. Remove the two terminal cover screws and flip open the terminal cover to expose the wiring terminals. The cover may be completely removed if required during installation.
- 3. Connect the wires to the correct terminals on the mounting base and ensure the terminal screws are fully tightened.
- 4. Remove any of the tear away cable entry apertures in the terminal cover as necessary. Reinstall cover and flip closed. Seal the base with the
- two terminal cover screws provided.
- 5. Mount base as shown. (figure 9 above)
- 6.Insert battery and install sensor head. NOTE: the sensor head cannot be installed without a battery being present.
- 7. Turn on mains power and check the green and red LEDs function. Green LED should glow to indicate mains power present.
- Red LED will pulse every 40-60 seconds to indicate correct operation and the 9V battery is OK.
- 8. Test the unit. To ensure correct operation of the alarm press the Test / Hush button.

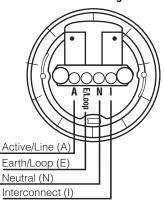
WARNING

- All 220-240V wiring must be carried out by a licensed electrician.
- All 220-240V wiring must comply with AS/NZS3000 wiring rules.
- The sensor head cannot be installed without a 9V battery being present.

DO NOT LEAVE THE INSTALLATION UNTIL THE RED AND GREEN LEDS, AND THE ALARM HAVE BEEN CHECKED FOR CORRECT OPERATION

220-240V a.c. Black 1mm²minimum





Interconnecting Smoke Alarms

HOW INTERCONNECTED ALARMS FUNCTION

- Interconnecting smoke alarms is a method of joining a series of alarms so that if any one alarm senses smoke,
- all alarms in the series will operate (go into alarm mode).
- 9V signal on the I and N wires is used to alarm all the other Interconnected alarms.
- A combination of Clipsal 755 Series Ionisation or Photoelectric smoke alarms can be used on one circuit.

WARNING

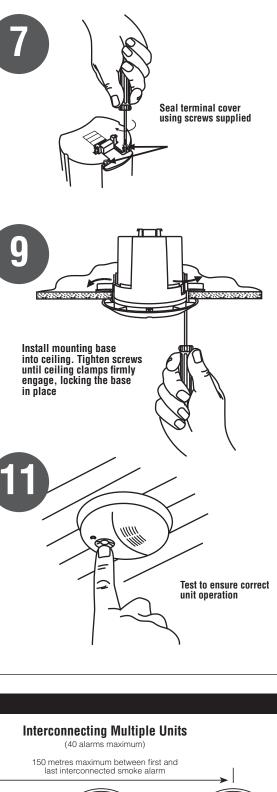
- All interconnected smoke alarms must be supplied from a single circuit.
- A common Neutral must be used for the Interconnect to function.
- DO NOT connect the Interconnect wire to Active or Neutral.
- A maximum of 40 Clipsal 755 Series smoke alarms can be installed on one circuit.

Terminal A - Active / Line **E/Loop -** Earth or Loop N - Neutral - Interconnect

Use minimum of 1mm ² 250V insulated wire for all wiring including interconnecting

220-240V a.c. 1mm²minimum Black

Red



Interconnect (I) Neutral (N) Active/Line (A)

What to do if Alarm Sounds

- Leave immediately by following your escape plan. Every second counts so don't waste time getting dressed or picking up valuables.
- 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 an alternative 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 rushes in.
- Stay close to the floor if air is smokey. Breathe shallowly through a cloth, wet if possible.
- Once outside, go to your selected meeting place and make sure everyone is there.
- Call the fire brigade from your neighbour's home not from yours!
- Don't return to your home until fire officials say that it is alright to do so.

Most Importantly. PANIC

Develop and Practise a Plan of Escape

- Have a family meeting and discuss your escape plan, showing everyone what to do incase of fire.
- Determine a place outside your home where all of you can meet if a fire occurs e.g. letterbox.
- Familiarise everyone with the sound of the smoke alarm and train them to leave your home when they hear that sound.
- Identify childrens' bedrooms with red stickers placed in the upper left corner of the windows.
- Practise a fire drill at least every six months. Practice allows you to test your plan before an emergency

You may not be able to reach your children. It is important they know what to do!



Press to silence

after checking

source of smoke

Family meeting point – letterbox

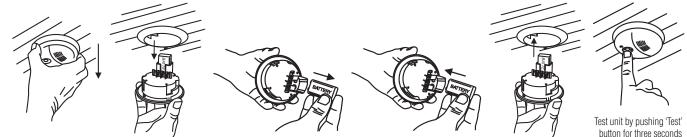
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Hush or Silence Feature

- This smoke alarm has a built in Hush or Silence feature incorporated into the 'Test' button.
- If cooking or other non-hazardous sources cause the alarm to sound it can be temporarily silenced by pressing the Test / Hush button for three seconds.
- The alarm then enters a dormant period for 10 minutes. • If the smoke density increases during this period (i.e. from a fire) the unit will go into alarm mode.
- After the 10 minute dormant period the smoke alarm resumes normal operation and two beeps will sound to indicate this.



The secondary backup power for the smoke alarm is supplied by a 9V carbon zinc or alkaline battery. The battery should last at least one year under normal operating conditions. IT IS RECOMMENDED YOU REPLACE THE BATTERY ON A DAY YOU CAN REMEMBER EVERY YEAR i.e. birthday, daylight saving.

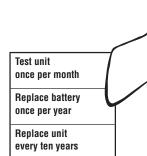


NOTE:

- Testing ensures all electronic circuitry, horn and battery are working correctly.
- If no alarm sounds, check the battery is installed the correct way around or replace the battery.
- If the battery is new and installed correctly and the alarm still doesn't sound, replace the smoke alarm.
- For a mobile home, test weekly and after every journey.
- If premises are unoccupied (more than a few days) then a battery test should be undertaken upon return. • When testing any interconnected smoke alarms, all connected units should also go into alarm mode.

recommended batteries that are readily available at hardware stores.

Recommended Batteries - Energizer 522, Duracell MN1604, Eveready A522 or 1222



The smoke alarm has a low audible beep.

If the smoke detector

sounds a 'beep' once

REPLACE THE BATTERY

WITH A NEW ONE.

a minute.





For your convenience, a handy 'BATTERY CHANGE REMINDER' sticker sheet is provided. Place one sticker for each month on your calendar or wall planner to help you remember to service your smoke alarm on a regular basis.

BATTERY CHANGE REMINDER STICKER

button for three seconds until the alarm sounds.

Use only ocal supermarkets or