CLIPSAL®
ELECTRICAL ACCESSORIES

Clipsal Lifesaver®

755 Series Smoke and Heat Alarms

SAFETY FIRST

Every home should have one

Clipsal Lifesaver®

All the protection you need

Installing a quality smoke or heat alarm (detector) ensures 24 hour a day protection for your family and home against fire and smoke.

The early warning a detector provides means less chance of major damage and, more importantly, less chance of lives being lost.

Smoke inhalation is the main cause of death in domestic fires, and as the smell of smoke won't wake you, a quality detection device is essential.

A Clipsal Lifesaver® 755 Series Detector is a small investment yet potentially one of the most important you will ever make.

The 755 Series comprises three technologies - ionisation, photoelectric and heat alarms, to offer total protection in any residential installation.

Other features include a compact size for easy fit off, the ability to link up to forty, 755 Series Detectors together and a Certificate of Compliance to the Australian Standard AS 3786-93 (Smoke Alarms), and AS 1603.3-96 (Heat Alarms).

SMOKE and HEAT *ALARMS*

Ionisation Smoke Alarms

Ionisation smoke alarms are the most popular detectors. This is the type which is the most sensitive to invisible particles of combustion (0.01 to 0.3 micron in range) emitted from highly dangerous, fast burning smokeless fires.

These alarms use a small amount of a radioactive source for correct operation, and operate by emitting alpha particles (positively charged particles) onto an electrode.

In turn, a small current is established in the sensing chamber. Upon entering the sensing chamber, smoke particles change the electrical conductivity within the chamber, which triggers an audible alarm.

Ionisation smoke alarms are recommended in bedrooms and adjoining hallways.

Photoelectric Smoke Alarms

Photoelectric smoke alarms are the most sensitive to larger, more visible particles of combustion (0.3 to 10 micron in range) emitted by slow burning, smouldering fires.

This type of smoke alarm operates using a light source (ie photodiode) and a photosensitive device (ie photovoltaic cell) arranged within the sensing chamber so that light is not directed at the device. Smoke particles entering the sensing chamber reflect the light into the photosensitive device which causes the audible alarm to sound.

Photoelectric smoke alarms are recommended for living areas, such as kitchens, lounge rooms, studies, and hallways.

Heat Alarms

Heat alarms are fixed temperature units that sound when the temperature reaches 73^{o}C (to comply within the range of 58^{o}C to 88^{o}C as per AS 1603.3 - 1996). They rely on a thermistor that is sensitive only to temperature.

Heat alarms provide additional protection to ionisation and photoelectric smoke alarms. They should not be used on their own and are not a substitute for ionisation or photoelectric smoke alarms.

Heat alarms are less sensitive to nuisance alarms caused by contamination, such as dust and insects, and are recommended for environments where nuisance alarms can be triggered by dust, high humidity, insects and fumes in kitchens, garages, attics, boiler rooms and basements.

Heat Alarm Unit

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Double the Safety

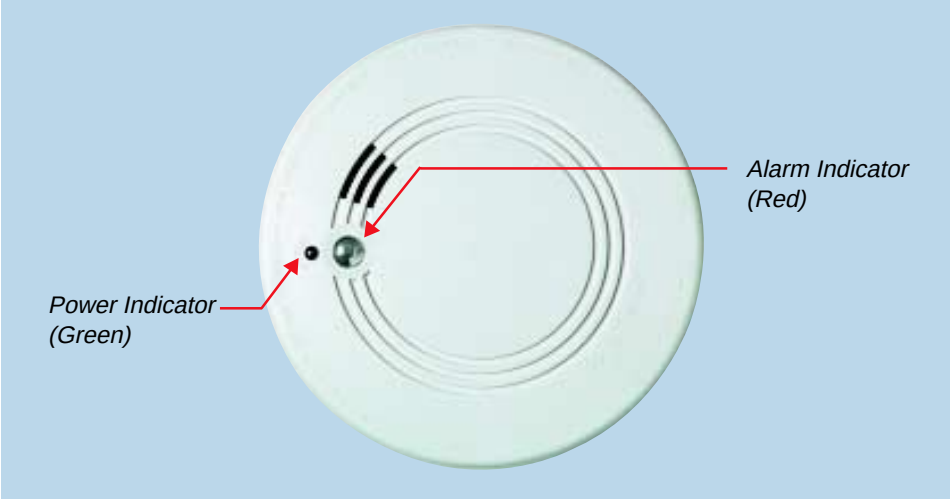
Clipsal Lifesaver®755 Series Detectors are 240V a.c. 50/60Hz, mains powered devices with a battery backup. Models are available with a replaceable 9V DC battery or a fixed rechargeable long life 12V DC lithium battery.

The a.c. power protects against flat batteries and the battery backup protects against power failure.

The 755 Series non-rechargeable detector models feature a unique 'battery missing' safeguard so that the detector cannot be attached to the mounting bracket if the battery has not already been fitted to the battery compartment.

An improperly fitted, weak or flat battery will cause the alarm to sound a beep at about one minute intervals.

As an added safety feature, the battery can only be replaced when the detector is disconnected from the mains power.



Instant Visual Status

A visual indicator shows the status of the detector.

A permanent green light and a red light that blinks every minute indicate that the detector is operating correctly. A red light blinking every second along with the alarm sounding, indicates that the detector senses smoke/heat and is in alarm mode.

A red blinking light every 10 seconds indicates quietening of an unwanted alarm.

Interconnection Feature

An interconnection feature allows up to forty, 755 Series Detectors to be linked, so that in the event of a fire, all alarms will sound at all locations in single or multi-storey dwellings.

When a detector is triggered, all detectors will sound. The detectors can only be silenced using the Test/ False Alarm Control push-button on the detector that initiated the alarm state. The initiating detector is recognised by the rapidly flashing red light on the unit.

When alarms are interconnected with the Clipsal 756 Isolation Unit, a set of voltage free contacts are available for controlling devices such as sirens, strobes and security systems.

The unit provides a normally open and normally closed (change-over) contact which is rated at 250V a.c., 10A resistive and inductive.

The 756 can operate without a mains supply as it derives its power from the detector and then only when in the alarm state.

SMOKE and HEAT *ALARMS*

Alarm Condition

During an alarm condition the detector will sound a loud 85 decibel audible sound (at 3 metres), and the red light will blink every second.

The alarm can be silenced by holding down the Test/False Alarm Control button. The False Alarm Control facility is only available on the ionisation and the photoelectric devices.

If the smoke is dense the False Alarm Control facility will be automatically disabled and the detector will continue to sound an audible output.

Easy to Install

The mounting plate fits standard mounting centres of 84mm, and a mounting bracket can be used to install each unit.

Alternatively, holes can be drilled in the ceiling and anchors fitted to secure the mounting plate.

The detector is supplied with a cover to prevent dust and foreign particles entering the unit while building and renovation work is still in progress.

This cover must be removed before the detector commences operation.

Test Feature

A combined single Test/False Alarm Control button on the ionisation and photoelectric detectors allows the home owner or installer to test the operation of the smoke alarm by holding down the Test push-button and sounding the alarm.

The same push-button can be used in case of a false alarm to silence the smoke alarm following an alarm condition, for approximately 15 minutes. The Heat Alarm has a Test push-button but not a False Alarm Control.

Limitations of Smoke Alarms

When installed and maintained correctly, detectors are an excellent and inexpensive way of providing your family with an early warning of possible fires. It must be remembered, however, that smoke and heat alarms do have their limitations and that these products should not be substitutes for basic safety precautions and fire prevention.

- Smoke alarms cannot provide an alarm if smoke does not reach the unit. They might not sense a fire that is on the other side of a closed door, or fires that start in chimneys, walls, ceilings, roofs, or on another storey.
- Smoke alarms located outside bedrooms, on the other side of a closed door may not wake a sound sleeper.
- Smoke alarms must be tested weekly to ensure that batteries and alarm circuits are in good condition. A smoke alarm with a flat or missing battery offers no protection in the event of a mains power failure.
- Smoke and heat alarms have a limited life and should be replaced after 10 years service.
- People with impaired hearing are advised to use special purpose smoke alarms that have flashing lights or vibrating devices to indicate alarm conditions.

Clipsal Lifesaver®

Developing an Escape Plan

A mains powered smoke and heat alarm with battery backup, correctly installed and maintained, is the most effective way of giving your family early warning of a fire. Other precautions are to reduce the risks of a fire starting in your home and to develop a fire escape plan with all family members.

Here are some suggestions for developing your escape plan:

1. Make a floor plan which clearly indicates all doors and windows in your home and at least two escape routes from each room. Multi-storey dwellings require special attention. For instance, upper storey windows may need a chain ladder or other fire stairway as a means of exit.

2. Determine a place outside your home (e.g. the letter box or front fence) where all family members can assemble if a fire occurs.

3. Discuss your escape plan with all members of your family. Show everyone, particularly young children, what to do in case of a fire.

4. Make sure all family members are familiar with the sound of the detector.

5. At least every six months sound the alarm and practice your family's fire drill.

Remember: In the event of a fire, you may not be able to reach your children. Therefore, it is important for all family members, including small children, to know exactly what to do.

What to do if the Alarm Sounds

1. Leave immediately, following your family's escape plan.

2. As you leave, don't open any inside doors without first feeling their surface. If a door is hot, or if you see smoke coming through the cracks, do not open the door. Use an alternative exit.

3. If the inside of the 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. If the air is smoky, stay as close to the floor as possible.

5. Breathe shallowly through a cloth, which if possible should be wet.

6. Once outside, go to your pre-selected assembly area and make sure everyone else is there.

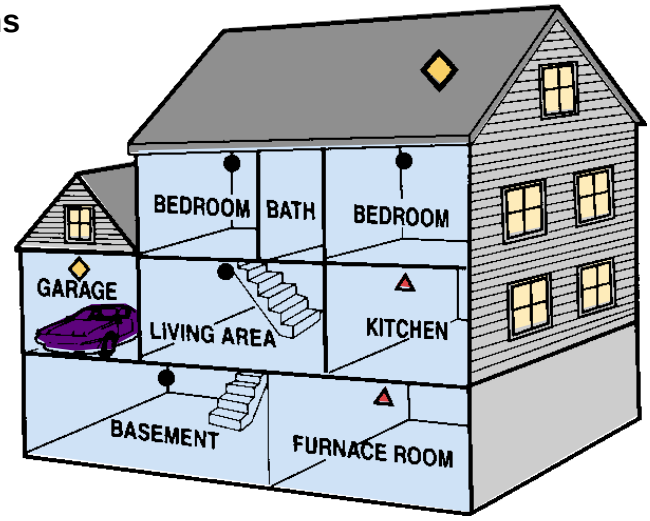
7. Call the Fire Service from a neighbour's home - never from your own.

8. Do not return to your home until fire officials give you permission to do so.

SMOKE and HEAT *ALARMS*

Recommended Locations for Smoke and Heat Alarms

- Ionisation Smoke Alarm
- Photoelectric Smoke Alarm
- Heat Alarm



Recommended Locations

- Install at least one smoke alarm on each level of a multi-storey dwelling.
- Locate an alarm outside every sleeping area and inside every room where a smoker sleeps.
- Locate an alarm in every bedroom where someone sleeps with the door closed.
- Locate an alarm in every room where electrical appliances such as portable heaters and humidifiers are used.
- When mounting an alarm on a ceiling locate it a minimum of 300mm from the side wall and 610mm from any corner.
- An alarm should be located at each end of a bedroom hallway if the hallway is more than 9m long.
- Smoke alarms are not recommended in areas with high condensation such as bathrooms, heat alarms may be used here.

Product Range	
755	Ionisation Smoke Alarm, 240V~, with 9V DC, alkaline battery backup.
755L	Ionisation Smoke Alarm, 240V~, with 9V DC, long life lithium battery backup, (non-rechargeable).
755RL	Ionisation Smoke Alarm, 240V~, with 12V DC, rechargeable long life lithium battery backup.
755P	Photoelectric Smoke Alarm, 240V~, with 9V DC, alkaline battery backup.
755RP	Photoelectric Smoke Alarm, 240V~, with 12V DC, rechargeable long life lithium battery backup.
755H	Heat Alarm, 73°C alarm point, 240V~, with 9V DC, alkaline battery backup.
756	Isolation Unit for use with Clipsal Lifesaver 755 Series Detectors.

SMOKE and HEAT *ALARMS*

Tamper resistant pins to prevent unauthorised removal of detector.

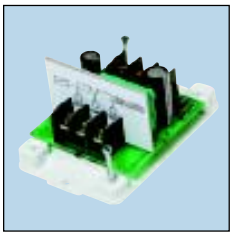
Loud 85 decibel alarm, ensures awakening in case of fire.

Low profile, small unit size. Looks attractive mounted on the ceiling.

Visual light indicator, easily read from a distance.

Ionisation, photoelectric or heat detection gives the home owner comprehensive protection.

Dust cover to prevent contamination during building or renovations.



756 Smoke Alarm Isolation Unit has an n/o and n/c changeover contact rated at 250V a.c., 10A resistive and inductive.

Rechargeable models available with 10 year life 12V DC lithium batteries. Never replace batteries again (755RL & 755RP only).

For added safety, power is disconnected when battery needs to be replaced (755, 755L, 755P, 755H models only).

Easily installed, no special tools required.

*Isolation Unit enables Smoke Alarm to be connected to a siren or strobe.**

Mounting plate with standard 84mm mounting centres. Standard mounting brackets may be used.

Combined Test/False Alarm Control push-button for ease of operation. (Not available on Heat Alarm, 755H)

Unit cannot be operated without battery fitted, enhancing safety.

5 year warranty (excludes batteries). Highly reliable design and construction.

CLIPSAL C-Bus COMPATIBLE

** Isolation Unit is compatible with Clipsal Minder Home Automation System and Clipsal C-Bus Energy Management System.*

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