

FireTek Smoke & Heat Alarms



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Electric



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Why Home Fire Safety Matters

Home fires are fast, deadly and often under protected, working smoke & heat alarms give families the early warning timethey need.



Early warning can help save lives.

A fire can take hold quickly. Fire and Rescue NSW advises that a fire can take hold in three minutes, and working smoke alarms are an important part of helping people get out safely.

When a fire starts at night, early warning becomes even more important. Fire and Rescue NSW has warned that people cannot rely on smell while sleeping, and working smoke alarms are critical because a person may not wake up to smoke without an alarm.

Working alarms make a difference

The risk of fatality in a home fire is halved when there is a working smoke alarm in a residential dwelling.

But many homes are not protected properly

Fire and Rescue NSW reported in 2026 that smoke alarms were either missing or not working in half the homes firefighters were called to. The same campaign found that 31% of NSW residents had not checked their smoke alarm in the past year or had never checked it, and 37% were not aware that smoke alarms need to be replaced every 10 years. (Fire and Rescue NSW 2026)

Quick Safety Check:

Walk through your home and ask yourself:

- Is there a working smoke alarm on every level?
- Are sleeping areas protected?
- Are alarms clean and tested?
- Are any alarms more than 10 years old?
- Do kitchens, garages or laundries need a different alarm type?
- Have you asked a licensed electrician to review your setup?

Regulations Are Changing

Key Compliance Requirements

Australia:

National Construction Code (NCC)

Sets minimum building requirements for safety, health, accessibility and sustainability. Under NCC 2025 Part 9.5, Class 1a smoke alarms must comply with AS 3786, be mains-powered where available and interconnected. Heat alarms must comply with AS 1603.3:2018 may be used in private garages to reduce false alarms.

NSW

Mandatory in residential buildings where people sleep. At least one working AS 3786-compliant alarm is required on each level, with additional bedroom alarms recommended. Interconnection not mandatory for existing homes but recommended.

QLD

By 1 January 2027, all existing homes must have interconnected photoelectric smoke alarms that comply with AS 3786:2014, contain no ionisation sensor, and are installed on each storey, in bedrooms and connecting hallways.

VIC

Mandatory in all homes, must comply with AS 3786; homes built after 1 Aug 1997 require hard-wired alarms with battery backup; interconnected alarms required in newer builds/renovations. From 25 Nov 2025, annual smoke alarm safety checks become mandatory for rental properties.

New Zealand:

From November 2024, New Zealand Building Code fire safety requirements were updated to make interconnected smoke alarms mandatory for new homes and consented renovations.

Smoke alarms are now required in all bedrooms, living areas, hallways and landings, with at least one on each level. If a kitchen or scullery is separated by closable doors, a kitchen-suitable alarm, such as a heat alarm must also be installed.

ACT and SA

Mandatory in all homes; must comply with BCA/NCC and AS 3786; newer homes require mains-powered alarms, while older homes may use battery alarms.

WA

Smoke alarms are required for homes being sold, rented or hired. They must be mains-powered, working, under 10 years old, and interconnected in new homes where multiple alarms are required.

TAS

Required in all residential properties; must be installed near bedrooms and on every storey; hardwired required since 1997 and interconnected since 2014 (for new/renovated homes).

NT

Approved alarms must be photoelectric and either hardwired or powered by a sealed 10-year lithium battery.



Know your local smoke alarm requirements

- Requirements vary by location, property type, occupancy and renovation status.
- Always check local rules and consult a licensed electrician before installing or replacing alarms.

Smoke Alarms

What do they do?

Purpose

- Detects smoke particles in the air as an early sign of fire
- Provides an early warning before fire spreads or becomes dangerous
- Alerts occupants with a loud alarm so they can evacuate quickly

Why it's important

- Gives people more time to escape during a fire
- Helps protect occupants, especially when sleeping
- Detects smouldering fires, such as electrical faults or furniture fires
- Supports home and building fire safety compliance

How does it work?

Detection Process

1. Smoke enters the internal sensing chamber through hidden vents or airflow gaps.
2. When smoke enters, smoke particles scatter the LED light.
3. The scattered light reaches the photodiode.
4. The photodiode triggers the alarm circuit, activating the loud warning sound.



Key Features

Internal

- **Photoelectric Chamber:** Where smoke detection occurs
- **Light source / LED:** Produces the light beam inside the chamber
- **Light sensor / photodiode:** Detects scattered light caused by smoke
- **Alarm circuit:** Powers the siren

External

- **Test / Hush Button:** Used to test the alarm. Can temporarily silence nuisance alarms
- **Indicator Light:** Shows power, operating status, alarm mode, or fault condition
- **Outer Cover:** Protects the internal electronics & helps guide air into the internal sensing chamber
- **Mounting Base:** Secures the smoke alarm to the ceiling or wall

Heat Alarms

What do they do?

Purpose

- Does not detect smoke
- Designed to detect heat caused by fire
- Activates when a heat condition reaches the alarm's trigger point, either a rapid rise in temperature or a high-temperature threshold
- Provides fire detection in areas where smoke alarms may not be suitable

Why it's important

- Useful where smoke, dust, steam or fumes may cause nuisance alarms
- Helps reduce false alarms in environments such as: kitchens, garages, laundries and dusty or humid areas
- Adds another layer of fire protection when used with smoke alarms
- Helps detect fires that create significant heat, especially in higher-risk utility areas

How does it work?

Detection Process

1. Heat from a fire enters the alarm through the heat sensor vent
2. Internal thermal sensor monitors the air temperature around the alarm
3. Alarm can activate in 2 ways:
 - High temp threshold: 54°C - 62°C **OR**
 - Rapid temp rise: increases unusually quickly over a short period
4. Once the heat condition reaches the trigger point, alarm circuit activates the siren



Key Features

- **Thermal Sensor:** Detects high temp or rapid temp rise
- **Heat Sensor Vent:** Allows hot air to reach the internal thermal sensor
- **Alarm Circuit:** Processes the sensor signal and decides when to activate the alarm
- **Siren:** Produces the loud warning sound
- **Test / Hush Button:** Used to test the device or temporarily silence the alarm



Why they work best together

Each alarm has a limitation

- Smoke alarms can false trigger in areas with steam, dust or cooking fumes
- Heat alarms reduce nuisance alarms, but only respond later until the heat condition is reached

Importance of Interconnection

- When one alarm detects danger, every connected alarm sounds at the same time
- This helps alert people wherever they are in the home, including bedrooms, closed rooms or distant areas
- Result: faster whole-home warning, giving occupants more time to respond and evacuate

Where should they be placed?

Alarm type	Best suited for	Why
Smoke alarms	Bedrooms, hallways and living areas	Early smoke detection in areas where people need fast warning.
Heat alarms	Kitchens, garages and laundries	Helps reduce nuisance alarms caused by cooking fumes, steam or dust.
Smoke + heat alarms, interconnected	Multi-level homes and larger floorplans	Helps create a stronger whole-home warning system, so when one alarm sounds, other connected alarms can also sound across different areas of the home.

Early warning

(Smoke Alarm)

+

Protection in high nuisance areas

(Heat Alarm)

=

Safer & smarter home protection

Interconnected system to alert the entire household

Note: Heat alarms should not be used as a direct replacement for required smoke alarms unless local legislation, building codes and installation standards allow that application

Why Clipsal?

Easy to chose: Clipsal has a strong presence in home electrical safety and is recognised for reliable, standards-led products.

Trusted safety choice: Clipsal is a recognised name in Australian homes, offering reliable, standards-led solutions for home electrical safety.

Fewer nuisance alarms: Heat alarms help reduce false alarms in areas where smoke alarms may be triggered by cooking fumes, steam or dust.

Designed for modern homes: Updated product design, surface-mount and flush-mount options, and a cleaner look help Clipsal alarms suit today's interiors.

Lower maintenance options: Selected models include 10-year lithium battery backup to reduce ongoing battery handling.

Electrician supported: Clipsal alarms are designed to support electricians with installation flexibility, interconnection options and compatibility with selected existing Clipsal bases.



Clipsal Range

FireTek Smoke and Heat Alarm Range

Alarms	Product	Key Features
NEW Heat Alarm (755HA5L)		• Standalone heat alarm for areas unsuitable for smoke alarms • 230V powered with 10-year battery backup • Wireless connection to existing Clipsal smoke alarms • Compatible with existing smoke alarm installation bases • 10-year warranty
Smoke Alarm 240V (755PSMA5)		• Direct replacement for 755PSMA4 • Photoelectric smoke alarm for residential homes • New robust design with upgraded dual-emission smoke chamber • Interconnectable (wired or wireless) • Compatible with existing Clipsal mounting base 755RFB2
Smoke Alarm 240V 10-Year Lithium Battery (755PSMA5L)		• Replacement for 755RLPSMA4 • Sealed 10-year lithium battery • Photoelectric smoke detection • New robust design and upgraded smoke chamber • Interconnectable (wired or wireless) • Compatible with existing Clipsal mounting base 755RFB2 • 10-year warranty
Smoke Alarm (755LPSMA4)		• Surface mounting • Lithium Battery powered, 10 year sealed lithium battery backup • Built in wireless • Interconnectable up to 40 wireless devices • 5 year warranty
Smoke Alarm (755PFM4)		• Recessed mounting • 9V replaceable battery backup • Interconnectable up to 40 wired devices • 5 year warranty

Note: New range meets AS 3786:2023 and AS 1603.3:2018, ensuring full compliance with the latest Australian smoke and heat alarm standards and evolving state regulations.

Clipsal Range

Wiser Smoke Alarm Specifications

New Offer	Product	Key Features
Wiser 240V Round Smoke Alarm (755WSA)		• Fits onto existing Clipsal Fire Tek bases. • When used with Wiser it can provide push notification alerts and trigger automations. • Dual spectrum photoelectric sensing technology helps to mitigate false alarms for added confidence. • Lithium 10yr battery backup. • Can be wired or wireless interconnected to all Clipsal smoke alarms.
Wiser 240V Square Smoke Alarm (CLP599WSA)		• When used with Wiser it can provide push notification alerts and trigger automations. • Dual spectrum photoelectric sensing technology helps to mitigate false alarms for added confidence. • Lithium 10yr battery backup. • Can be wired or wireless interconnected to all Clipsal smoke alarms.
Wiser Lithium battery powered Smoke Alarm (CPL599WSAL)		• When used with Wiser it can provide push notification alerts and trigger automations. • Dual spectrum photoelectric sensing technology helps to mitigate false alarms for added confidence. • Powered by a 10-year sealed-in lithium battery. • Can be wireless interconnected to Wiser smoke alarms and the 755RFB2 and 755LPSMA4 Fire Tek smoke alarm



Accessory Specifications

New Offer	Product	Key Features
Relay Base for 240V Smoke Alarms (755RB5)		• Replacement for 755RB • Enables compatible smoke alarms to interface with external devices and systems. • Improved markings support easier installation and maintenance • Built-in 10-year battery backup
Wireless Mounting Base for Smoke Alarm (755RFB2)		• Enables 755PSMA5 and 755PSMA5L smoke alarms to be wirelessly interconnected. • Ideal for upgrades, extensions, or installations where cabling is difficult. • Supports systems with up to 40 compatible interconnected alarms. • A remote test/hush input to allow testing or silencing from a momentary wall switch.

Maintenance

Keep your alarms ready

Installing the right alarms is only the first step. Alarms need to be maintained so they are ready when they are needed.

Fire and Rescue NSW reported that 45% of surveyed NSW residents did not know alarms require cleaning every six months, and 37% did not know smoke alarms need to be replaced every 10 years. (Fire and Rescue NSW 2026)

Simple checklist

Monthly

- Test each alarm using the test/hush button.
- Clean around the alarm to help prevent dust or insect build-up.
- Check battery backup operation according to product instructions.

Yearly

- Replace 9V backup batteries where required.
- Use a memorable date, such as daylight saving or a household reminder, to stay on track.

Every 10 years

- Replace the entire alarm once it reaches the end of its service life.



A working alarm is only working if it is tested, clean and in date

Do not ignore beeping, damage, expiry dates or missing alarms. If in doubt, speak with a licensed electrician.



Ready to make your home safer?

Home fire safety should be simple to understand and easy to act on. With Clipsal smoke and heat alarms, homeowners can feel confident they are choosing a trusted, standards-led solution designed for modern homes.



Speak to your licensed electrician

Your electrician can help you select the right combination of smoke and heat alarms for your home, renovation, rental property or new build.

Ask about:

- Which alarm type is right for each area
- Whether your current alarms need replacing
- Interconnection options
- 10-year lithium battery options
- Local compliance requirements

Learn More

Visit <https://www.clipsal.com/featured-ranges-hub/smoke-alarms> or speak to your local Clipsal or Schneider Electric partner



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