



# Simplex Fire Products Corporate Profile

Fire Detection and Evacuation Systems





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### Addressable fire systems

The 4100U is a highly flexible analogue addressable fire alarm system. It supports up to 2,000 analogue addressable devices and each addressable loop can have up to 250 devices. The networking capabilities allow the system to be distributed throughout buildings and across a large site. A network can contain 99 panels, each 4.5km apart, running on copper cabling, effectively allowing a network loop distance of 441+km. Existing Simplex 4100 systems can be converted to benefit from this latest technology while complying with Australian Standards.

The 4100U-S1 retains many of the features of the 4100U, but is an out-of-the-box solution specifically designed for smaller establishments. Despite its lower cost, it supports a full range of addressable devices.

### Emergency warning and intercommunication systems

The QE90 Emergency Warning and Intercommunication System(EWIS)is designed to help people evacuate a building in an orderly manner in the event of an emergency. Integrating a flexible alarm and voice warning system with a dedicated emergency telephone network, the QE90 allows fire wardens or emergency services personnel to easily control and coordinate rapid building evacuation.

### Simplex is a Non Proprietary Product

Simplex products can be serviced installed and programmed by any company that has undertaken our training courses which are run several times a year in each state of Australia. Simplex only allows trained and licensed companies to access our programmers, ensuring only qualified personnel are modifying these important life safety systems, but allows the flexibility of choice for the end user in the service company they select.



Simplex 4100U system,  
installed and operating in  
Crown Melbourne Limited

# A Simplex Fire System is designed to last for life



Impressive networking capabilities over vast areas connecting thousands of devices



QE90 EWIS system

## Over a century of leadership in fire protection

Simplex fire control panels, detectors and software continue to be the equipment of choice in high end fire protection systems. We've been at the forefront of business technology since the late 1800s and continue to lead the industry in this rapidly developing area.

Simplex has always developed and sought out new ways of addressing safety and protection needs. Simplex seizes the opportunities provided by emerging computer and communications technology and integrates it into improved fire protection and evacuation management products. Our goal is always to deliver the very best property and personnel protection systems available.

## Taming the complexity of multiple devices

Simplex systems are comprehensive, able to cover vast areas and link thousands of points with multiple loops. They can be attached to a large range of input devices. But to the people operating and maintaining the systems, they appear quite simple.

The Simplex Information Management System provides comprehensive view and control of a complete fire protection system. The graphic operator interface provides an easily recognisable site plan (imported from standard drawing files) with:

- > Zoom capability to view at variable levels of detail
- > Customised alarm and trouble messages can be added so the operator can make the appropriate contacts and response from the console
- > Up to 50,000 network points in up to four separate loops can be connected
- > Up to 500,000 history events recorded. In-built automatic network diagnostics provide detailed status information about each network fire panel

## Products designed to last for life

Long term infrastructure assets, like shopping centres, hospitals, road tunnels, educational institutions, factories and industrial facilities, need protection systems that can be easily updated to maintain compliance with changing standards and community expectations without having to replace entire systems due to obsolescence.

Simplex's philosophy of backward and forward compatibility ensures that the products available today will be compatible with more advanced products yet to come. And today's products are compatible with Simplex products installed years ago. This philosophy lowers overall life cycle costs and means that Simplex systems can always be easily expanded and converted with the latest technology.

For example, when a hospital in Perth expanded its facilities, the 2120 Fire and EWIS systems installed in 1989 were included in the converted 24 node 4100 fire / EWIS network (with graphics) system. Being able to use the original detectors while adding newer technology saved tens of thousands of dollars.

Similarly, when the Department of Defence decreed that all defence accommodation blocks should incorporate an alarm investigation facility to comply with AS4428-10, all that was required was to convert the software running the Simplex 4100 panels installed in 1994 and add Simplex Alarm Acknowledgment Modules.

### Typical Shopping Centre/Hospital/University timeline

<i>1x Simplex MFIP installed</i>	<i>2x Simplex Fire panel added to new buildings networking incorporated to existing MFIP</i>	<i>3x panels converted to AS4428 by updating software and display</i>	<i>10x new SFIP's added. All networked to original MFIP</i>	<i>New range of detectors installed onto existing SFIP</i>	<i>All existing panels can be updated by changing software and GPU, if desired</i>
<b>1992</b>	<b>1994</b>	<b>2000</b>	<b>2004</b>	<b>2008</b>	
<i>New Installation</i>	<i>Site Expansion</i>	<i>New Australian Standards AS4428</i>	<i>Site Expansion</i>	<i>Building Renovation</i>	<i>New Australian Standards ISO</i>

## Find us in every class of major infrastructure

Builders of large shopping malls choose Simplex products for many centres throughout Australia. A 4100 series panel is usually selected to control the systems due to its advanced features and easy expandability. Large malls, such as one in Bondi Junction Sydney, run 13 fire panels, 2 Information Management Systems and 3000 detectors.

Sydney's road tunnels demanded the very best in fire protection and evacuation technology. The road authority requires superior network speed, no greater than 500 milliseconds. The Simplex fibre optics network response time is less than 100 milliseconds, giving virtually instant response control. The required 20 year system design life is easily met through Simplex systems forward compatibility policy.

A large iconic building in Sydney had been reliably serviced by a Simplex 2120 for both fire and evacuation for decades. The replacement Simplex 4100U fire panel and Simplex QE90 Emergency Warning System were installed to take this building up to the latest standards, including 250 device loops.

## Flexible products that grow with your needs

Simplex has a range of technically advanced products suitable for a wide range of applications. The following are particularly popular.

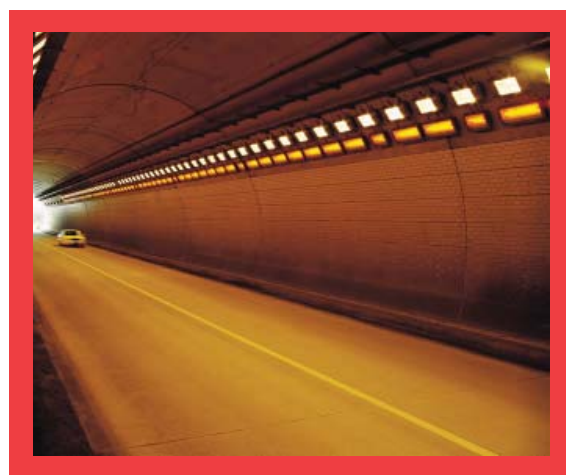
### Simplex Addressable Detectors

The innovative TrueAlarm technology results in fewer false alarms, reducing unnecessary fire brigade callouts and disruption.

### Conventional / collective systems

The F3200 is an advanced, microprocessor based conventional fire indicator panel. In its minimum configuration the F3200 provides a comprehensive 8 zone fire alarm and control system, but can be expanded to control up to 64 zones. Its flexible input monitoring and extensive field programming facilities make it suitable for fire detection, fire suppression, ventilation control and much more.

## Today's Simplex Products are compatible with products installed years ago



### TrueAlarm® Analogue Addressable Detectors



- > Analogue smoke and heat sensing
- > Louvered design for patented smoke capture
- > High system integrity
- > Automatic environmental compensation