

SIMPLEX® 4100U FIRE DETECTION AND ALARM SYSTEM



*A New Way
To Manage
Your Safety...
and Your Future.*

LIFE-SAFETY
SYSTEMS
FOR A
CHANGING
WORLD

MANAGING CHANGE HAS NEVER BEEN EASIER.

In a world that's constantly changing, your operation must have the flexibility to change and grow toward the future – sometimes at lightning speed. You need a life-safety system that can respond instantly to shifting operational requirements, add new capabilities seamlessly, and ensure that every dollar spent is a dollar maximized.

Welcome to the Simplex® 4100U Universal Fire Alarm Platform from SimplexGrinnell.

It's the first fire management and information system dedicated to making life not just safer, but easier.

Built upon the legendary, field-proven performance of the Simplex 4100 Series, the next-generation Simplex 4100U leverages new technology to bring you the highest levels of safety, information sharing, manageability and investment protection over the life cycle of your equipment.

The **real value** of the 4100U begins where other fire alarm systems leave off. SimplexGrinnell offers more than a solution – we offer a **total life-safety management strategy** that enables the 4100U to grow with you into the future. It transforms your system into an asset with ongoing returns, rather than an isolated expense.



SIMPLEXGRINNELL... WE SIMPLY WORK SMARTER.

True interactive communications

The Simplex 4100U is the only fire alarm platform that can support both TrueAlarm® detection and TrueAlert™ notification devices down to each individual point.

- Total addressability – all devices communicate with Simplex controllers
- Overall lowest installed costs in the industry thanks to T-Tap wiring
- Easy expansion and retrofits
- Low-cost, hassle-free compliance testing without disrupting your operations

Real-time information at your fingertips

Our Windows®-based Information Management Systems put a world of configuration, control, diagnostics and annunciation information at your fingertips, all from a single screen. Both Simplex and non-Simplex systems are at your command.

Advanced built-in diagnostics allow you to access key diagnostic information from anywhere – at the panel itself, at the operator workstation within your facility or from a remote laptop across the globe. Issues like device-level ground faults can be isolated and resolved rapidly for optimum system performance and minimum service costs.

Easy expansion without disrupting your facilities Our intelligent slave cards support easy “on-the-fly” system upgrades. Downloadable memory changes are quick and easy – no hardware swaps necessary.



Who says life-safety management has to be complicated?

A SYSTEM SO SMART AND RELIABLE, IT'S PRACTICALLY INVISIBLE.

Of all the advantages of owning a Simplex® 4100U Universal Fire Alarm Platform, the one you'll appreciate most may be the one you'll notice least – it's virtually invisible to your operations.

Troubleshoots its own operations *to eliminate guesswork – it's so reliable, it automatically tells you when it needs to be serviced*

Supports fast expansion and reconfiguration *without disrupting your facilities – scalable architecture makes it easy*

Puts real-time information at your fingertips *with Windows-based configuration, diagnostics and annunciation just a click away*

Minimizes operator training *so as your work force continually changes, your staffing transitions will feel seamless*

The 4100U's friendly, intuitive, "information rich" user interface sets a new standard in efficiency and ease-of-use.



THE "U" STANDS FOR

UNIVER

because the 4100U is everywhere you need it to be,

Did you know?

The 4100U is Internet ready. The 4100U is at the leading edge of the use of the Internet in fire alarm environments and email notification. As emerging Internet communications standards become accepted, the 4100U stands ready. It's designed to support future software uploads/downloads, remote diagnostics with SimplexGrinnell service technicians and more.

The 4100U has smart power. Our power supplies support intelligent distributed communications for a new level of reporting accuracy. You can quickly read voltage and current levels and track issues like ground faults, brown-out conditions and depleted battery.

The 4100U supports digital voice communications. You get eight simultaneous field-programmable messages over a single pair of wires – ideal for facilities that require multiple concurrent messaging.

4100U

Proven protection in a range of value-priced models

- Off the shelf, ready for delivery
- Easy to buy, install, maintain and expand
- Ideal for commercial buildings requiring protection of 25 or more discrete areas
- Up to 2,000 addressable/analog points per controller
- Compatible with 4120 Network and 2120 Multiplex



4100U with Digital or Analog Voice

Wider coverage for larger environments

- The superior functionality of the 4100U in a more comprehensive solution
- Ideal for high schools, hospitals, universities and other large industrial, commercial and government facilities up to 12 stories
- Can protect more than 400 discrete areas – or fewer in smaller applications
- Optional voice available with flexible messaging and unrestricted languages
- Agency listed for paging and non-alarm audio use
- Agency listed for combined use; fire evacuation, general paging and background music



4100U with Miniplex

Excellent large-scale protection for today's fast-changing environments

- The perfect solution for small high-rise facilities, office buildings and dormitories from 8-15 stories
- Links multiple transponders for monitoring and control throughout your facilities
- Lower installation, materials and power costs
- Built-in survivability with "Local Mode" option



SAL...

today and tomorrow.

With the modular 4100U family, you can buy what you need today and then quickly scale the system as your needs expand. Adding controllers, network nodes and intelligent devices is fast and hassle-free. System availability is never compromised.



4100U advanced performance

- Miniplex™ “Local Mode” option – if network communications are lost, the panel’s built-in “local” intelligence allows it to sound the alarm anyway
- BACnet® and IDNet™ compatible
- Local area test mode for one-person testing with auto test reset for accurate system checkout
- Non-volatile memory for continuous protection during power outages
- Built-in TrueWare® diagnostic software for easy problem identification and resolution
- Built-in Computer Port Protocol links Simplex 4100U environments to other building systems for seamless facility-wide systems integration and information management

Seamless migration

- “Buy as you go” – card frame design allows easy addition of expansion modules so you can grow your 4100U capabilities as quickly as you need
- Modular design lets you program changes, download upgrades and/or add network nodes quickly and easily
- Compatible with legacy MAPNET® and new IDNet™ devices
- Optional alarm verification per point
- Easy upgrades of older Simplex 4100, 2120 and Autocall Systems
- Easy connection to industry-leading SimplexGrinnell Central Station Monitoring Services for unparalleled 24x7 remote monitoring and surveillance of your facilities

Ease-of-use

- Advanced intuitive operator interface with programmable multi-function buttons and menu-driven 80-character LCD display
- Supports Simplex Windows-based Information Management Systems for information when and where you need it
- 100% on-site programming
- “Partitioned programmer” feature allows you to program custom label editing functions without compromising the fire alarm system protected program

THE FIRE NETWORK OF THE FUTURE... AVAILABLE TODAY

Did you know?

The 4100U has dual operating software for optimum system and network survivability. It can support two system configurations in memory with the ability to switch back and forth instantaneously. While one program is live, you can build and download the second program to a stand-alone panel or multiple network nodes without impacting network performance. You can then go live with the second program, test it and switch back to the original program before making corrections. System and network survivability are never compromised.

Are you facing a large-scale fire protection challenge requiring the highest levels of performance and survivability? Choose SimplexGrinnell's premier solution, the Simplex 4100U Distributed Network Fire Alarm System.

The 4100U Distributed Network is designed for the special requirements of high-rise office towers and multi-building facilities such as hospitals, colleges, industrial plants, sports complexes, airports and much more. It links multiple 4100U control panels in a seamless, highly survivable fire alarm network that can support up to 784,000 addressable analog points and is fully compatible with all existing Simplex 4120 networks.

Fiber-optics flexibility

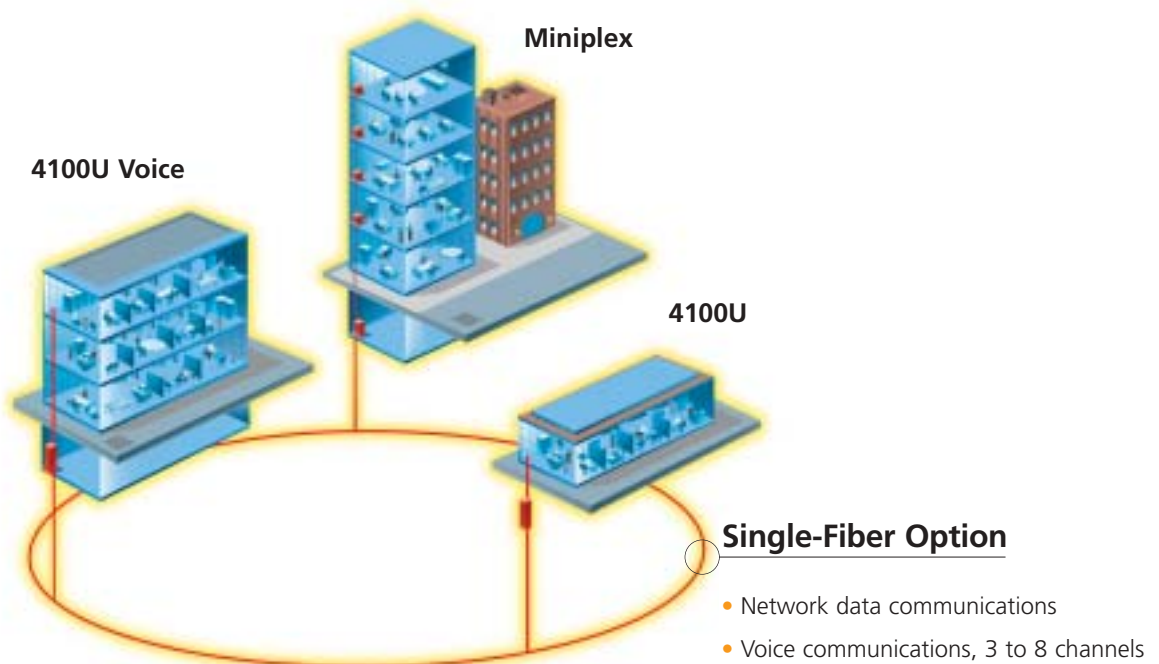
4100U network nodes may be securely connected using single- or multi-mode optical fiber. A single fiber can handle simultaneous, two-way transmission of both fire alarm network data and voice communications, even between nodes that may be miles apart.

Peerless protection

The 4100U Distributed Network's advanced peer-to-peer Token Ring network design provides a communications platform for master annunciation, control and information sharing without requiring centralized processing. This ensures an unparalleled level of survivability compared to conventional systems that rely, sometimes dangerously, on central control.

- Alternate communications paths assure continued protection even if a primary path goes down. Stand-alone functions are maintained if a node is separated from the rest of the network. If multiple faults occur, the remaining nodes automatically reconfigure to maintain operations.
- Blazing-fast response times keep you one step ahead of an emergency. In benchmark tests of a 99-node network, our typical alarm response time was 1.6 seconds, far outperforming the NFPA's minimum 10-second requirement.
- Fiber-optics flexibility lets you design survivable fire network communications and voice paging/evacuation messaging over a single fiber.

Disaster comes without warning, whether it's due to nature or human intervention. That's why thousands of customers rely on our peer-to-peer Token Ring fire network with alternate communications paths. With SimplexGrinnell, they know the survivability of their system – and their operations – is in the safest possible hands.



INFORMATION

WHERE AND WHEN

YOU NEED IT

To manage your 4100U Distributed Network for optimum protection of people and property, you need information. Information about the state of the network, what's happening and where, which devices need maintenance, where configuration changes must be made, and where protection can be optimized.

You need the Simplex® Information Management Systems (IMS) family.

The powerful, versatile IMS family offers a range of agency-listed primary operator workstations, and other products providing state-of-the-art network annunciation, configuration and control and custom reporting. These next-generation graphical management systems will help you manage, configure and optimize your 4100U environment with "point-and-click" ease.

Based on Microsoft® Windows, the IMS family seamlessly accepts information from thousands of devices – making your life easier than you ever expected.

Universal integration – manages any fire alarm system, anywhere. You can manage multiple fire alarm systems – including the 4100U, legacy Simplex systems like the 4120 network, systems from other vendors, and virtually any control panel from any manufacturer – from a single Windows environment.

"Learn once, use many" The IMS uses a consistent user interface. This friendly, intuitive environment makes it easy to interact with the fire system network. The same software is used on every workstation, minimizing training and maximizing operator accuracy.

Seamless connectivity The IMS supports a range of communications protocols to leverage your existing infrastructure and lower costs.

- *Fault-tolerant fire network* – Provides unparalleled survivability in the event of line loss or disconnection
- *Remote dial-up* – A practical, economical solution for remote systems

A fire has just started in a building. Thanks to the IMS, your operators know exactly what to do – even if they just started on the job this morning. Detailed alarm and event information is quickly vectored to the response teams who need it.



A MANAGER'S DREAM: With the IMS family, in-depth management reports and historical logs about your entire fire network environment are just a "point and click" away.

Information Management Systems (IMS) Family

Information Stations

- *Primary agency-listed operator management workstations, typically located on-site at your facility*

Digital Alarm Communicating Receivers (DACRs)

- *Allow remote devices with DACTs (Digital Alarm Communicating Transmitters) to connect via the public dial-up phone network to fire network equipment and IMS stations*
- *Use public dial-up phone network for low costs and no hassles*

A LIFE CYCLE OF SERVICE

The *real value* of life safety isn't complete without real service from SimplexGrinnell. Whether it's...

Pre-sales support to help you select the perfect system;

Fast implementation for rapid time-to-occupancy; or

Post-sales support for optimum long-term success;

SimplexGrinnell will meet your needs every step of the way.

The real value of life safety is the peace of mind that comes from working with one supplier who will manage your Simplex 4100U's life cycle from initial consultation through project management, implementation and support. In the final analysis, you want a supplier with the systems, the expertise and the resources to help ensure optimum protection of your people and property.

What's YOUR value equation?

What are you looking for in a life-safety system? We invite you to visit us at www.simplexgrinnell.com and measure the SimplexGrinnell difference for yourself.

If you'd like additional information, call us today – 800-SIMPLEX in the U.S. or 800-565-5400 in Canada. Or visit www.simplexgrinnell.com to locate the district office nearest to you.



With thousands of veteran life-safety specialists, technicians, and NICET-certified support personnel located in more than 150 offices throughout North America, SimplexGrinnell is wherever you need us to be. We invite you to see for yourself.

**PROTECTING PEOPLE,
PROPERTY AND
PEACE OF MIND™**

tyco

*Fire &
Security*

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