Faraday Intelligent Fire Detection Systems

Faster detection means better protection for buildings and the people in them.

▌▌▌FARADAY

Greater safety and value for new and retrofit applications

The right fit

Fire safety is just as critical to small and mid-size buildings as it is to high rises and large campuses. With Faraday intelligent fire detection systems, average-size buildings can now benefit from the same advanced technology used in many of the world's most sophisticated structures.

Faraday models MPC-6000 and MPC-7000 are designed to precisely fit your fire safety concerns, budget and building design. From a small one-loop system to a large networked configuration, they offer a new level of protection and peace-of-mind for most commercial, industrial and institutional facilities.
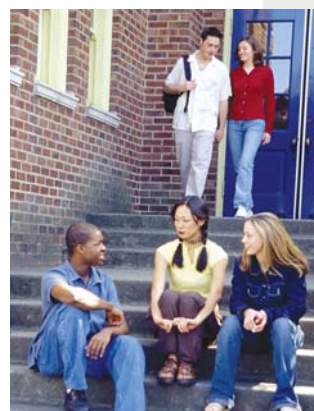
Built for speed

Faraday intelligent systems can detect fire and notify occupants in an average of three seconds. Innovative electronics and software features can slash installation time by up to 25%.*

* Depending on size and type of building.

Hospitals & Healthcare   Strip Malls   Nursing Homes   Manufacturing   Schools   Chemical

Lower lifecycle cost

Don't settle for a lesser degree of protection. From flexible architecture to time-saving installation, the features that make the Faraday intelligent series so simple to handle can also reduce your costs over the life of the system.

MPC-7000 (right): Offers two SLCs expandable up to four, with eight amps of power.
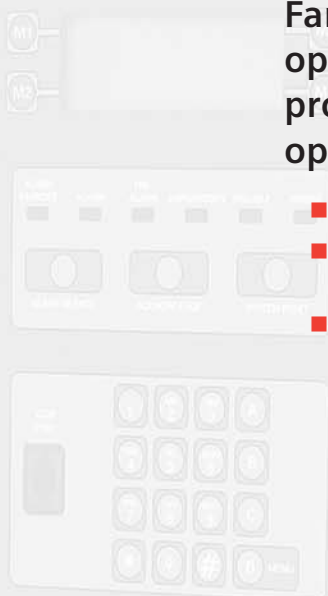
MPC-6000 (below): Features one signaling line circuit (SLC) with up to six amps NAC power.

MPC-7000

MPC-6000

Colleges   Storage   Corporate   Libraries   Museums

Faraday intelligent systems operate with a range of proven devices that provide optimum system performance:

- FireSmart™ intelligent fire detectors
- Faraday Voice-Plus Digital Emergency Voice Evacuation Systems
- Faraday notification devices

Faster, easier, more flexible

The Faraday intelligent series consists of the MPC-6000 and the MPC-7000. The MPC-6000 features one signaling line circuit (SLC), with up to six amps NAC power. The MPC-7000 offers two SLCs, and can be expanded to three or four SLCs, with up to eight amps of power. Both models are compatible with the Faraday Voice-Plus Emergency Voice Evacuation System. Each system packs enough power to handle all signaling and auxiliary power supply needs.

Record response time

When fire is detected, Faraday intelligent systems relay the message from the point of detection to the fire panel in less than a quarter of a second. In an average of three seconds, alarms are activated and emergency control operations are engaged, including fire door closure, elevator capture and air handler shutoff. The systems can accommodate more than 250 detection devices per loop.

Efficient installation

The Faraday intelligent series uses revolutionary wiring technology that helps minimize the effects of installation errors and can cut installation time by up to 25%. That in turn can help reduce your installation costs. The systems' time-saving features include:

***Device Programmer/Loop Tester Unit*:**
This powerful tool saves hours of installation time by allowing installers to test and verify correct connection of devices as they're installed. Prior to system installation, the loop tester unit can also check detector loops for ground faults and shorts, and test device communication, alarms and trouble reporting.

Polarity Insensitive Loop Wiring:
Allows fire detection devices to operate flawlessly even when detector and module wiring polarity are inverted on the wrong screw terminals. This major time-saver speeds system installation and reduces errors, saving you and the electrical contractor time and money.

Device Programmer/
Loop Tester Unit

Use of Existing Wire**:

To save time and money on retrofits, the system can be connected to existing field device and notification circuit wiring. The need for shielded wire on intelligent detector loops and notification appliance circuits is eliminated.

Versatile System Configuration Options:

System programming can be quickly accomplished using the auto-configure features via the system's built-in keypad. Or, programming can be done with our easy-to-use Windows™-based system configuration program. This simplifies and reduces the time needed to create or change configuration programming.

252 Detection Devices Per Loop:

Each signaling line circuit supports up to 252 addressable inputs and 252 outputs for a total of 504 programmable points on a single loop. More devices per loop mean less wiring to install.

* Patents pending
** Use of existing wire requires approval of local authority having jurisdiction.

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Devices to enhance system performance

FireSmart™ intelligent fire detectors

Using a neural network that operates much like the human brain, FireSmart detectors offer the most advanced detection technology available today. False alarms are eliminated because the detector knows and recognizes the difference between false alarm conditions and genuine fire. Faraday guarantees each FireSmart detector against false alarms.

Each FireSmart detector can be set for any of 11 different environments in which fires most commonly occur. The detector's decision-making process can be set as required to sense fire, based on where the detector is installed, for the following applications:

Computer rooms
Lobbies
Dormitories
Offices
Hospitals
Healthcare facilities
Parking garages
Precious storage
Hostile environment
Utility rooms
HVAC ducts
Warehouses

Faraday notification devices

Notification devices

The Faraday intelligent series is compatible with the complete line of Faraday notification devices. Energy efficient and easy to install, these products meet ISO 9001 quality standards and ADA requirements. In addition, the Faraday intelligent series offers built-in strobe synchronization protocol and can silence horns and keep the strobes flashing on two wires.

Device programming

Device programming can be conducted from the panel keypad or with the Device Programmer/Loop Tester Unit. Our line of products includes photo or thermal detectors, or a combination of both, with relay or audible bases. Single input, single input with relay and dual input modules are included.
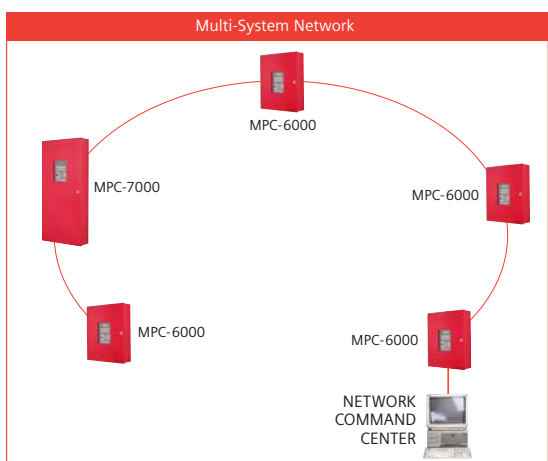

FireSmart detector

Command and control for multi-system networks

Color graphics

Installed on our color graphics computer, this graphic annunciator software allows the user to tie together multiple MPC-6000's and MPC-7000's at a central location. Color graphics makes monitoring and responding to fire alarm conditions easier than ever before. It also gives the user full control over the network and can indicate devices on a floor plan. Diagnosis of system events is simplified because all displayed events are color-coded.
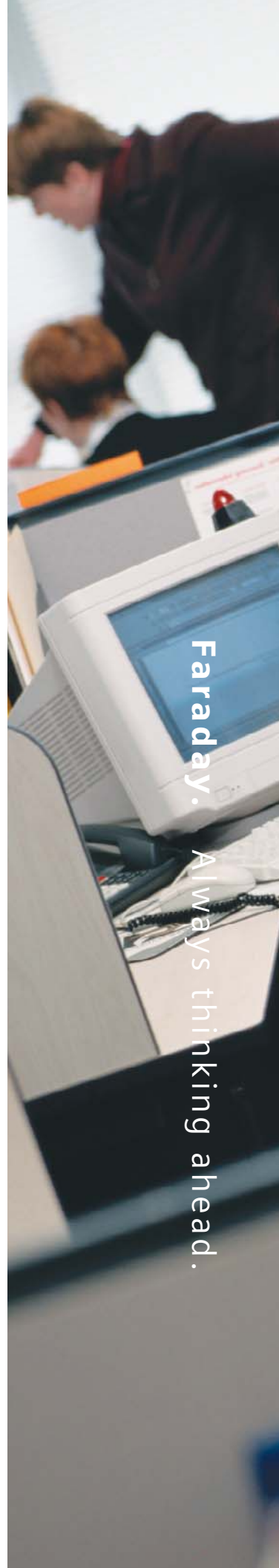

Color graphics screen

Networking Configuration

Networking multiple Faraday systems using MPC-Net

MPC-Net is a peer-to-peer network that provides true distributed intelligence throughout the system. It allows the user to connect up to 127 MPC-6000 and MPC-7000 panels and peripherals.

Faraday: a leader in complete fire safety solutions

Fire safety needs have changed radically during our 130-year history. By anticipating and adapting to this evolution early on, we've provided facility owners, managers and consulting engineers with effective solutions time and time again. Our selection of fire detection systems and devices is compatible with most types of commercial, industrial and institutional facilities. All products are manufactured to ISO quality standards and are UL listed. So whatever your application, trust our ability to deliver the ideal fit for your current and future needs. Faraday. Always thinking ahead.

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