Fire-Lite® Alarms has a legacy of simple, reliable life-safety systems. By designing advanced technology that’s also easy to use, Fire-Lite makes protecting what matters most easy – year after year. In a world where anything can change in an instant, you can count on the consistency of Fire-Lite.

**Fire-Lite®- Innovation that Endures.**

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Addressable Fire Alarm Control Panels

Fire-Lite Alarm’s innovative, addressable control panels offer a wide range of capabilities to provide superior value and flexibility. They are easy to install and program with notification appliance circuit (NAC) synchronization and enable emergency personnel to quickly locate a fire. The built-in LiteSpeed™ protocol ensures the fastest possible device response times to help reduce property damage and save lives.

Endurance Series
ES-50X and ES-200X

• Single SLC that provides support for 50 (ES-50X) or 198 (ES-200X) addressable devices.
• Upload/download panel programming database and flash firmware with USB thumb drive.
• Support for addressable multi-criteria fire and CO detector.
• 4 programmable function keys to save time.
• Built-in Class-A capability for all 4 NACs; no optional card required.
• Trouble indication for SLC devices not programmed.
• Integrated SWIFT display driver and annunciator built-in to panel.
• Notification appliance circuits have built-in sync for the industry’s leading manufacturers including System Sensor®, Wheelock®, and Gentex®.

MS-9600LS
and MS-9600UDLS

• Up to 159 detectors and 159 control/monitor modules. (total of 318 devices) per SLC (636 with SLC-2LS option card).
• LiteSpeed protocol for SLC communication polls 10 devices at a time and operates on standard, unshielded wire.
• Auto-programmable function reduces installation time.
• Advanced fire technology includes sensitivity testing and automatic drift compensation.
• 4 programmable Class B and 2 Class A NACs.
Emergency Command Center (ECC)

Fire-Lite Alarm’s Emergency Command Center (ECC) leverages advanced technology and 60+ years of life-safety experience to deliver critical messages through non-proprietary systems. The ECC is ideal for any building that needs a flexible, multi-zoned, and highly configurable fire evacuation and mass notification system that’s easy to maintain.

ECC-50/100 Primary Operator Console

- Seamless integration and control when connected to select Fire-Lite addressable panels through the ANN/ACS communication bus.
- May be used with any UL-listed control panel (messages can be initiated by using a dry contact or via a fire alarm NAC circuit).
- Includes a single 25 volt, 50 watt speaker circuit (upgradable to 100 watts and 2 speaker circuits with optional amplifier).
- Speaker circuits are expandable by up to 8 outputs (with an optional ECC-CE6 module).
- Can support up to 14 prerecorded messages that are field-programmable for up to 60 seconds of message playback.
- Built-in 2 Amp NAC output with sync generator.
- 8 Command Input Circuits that can be used to activate messages 1 to 8.
- Optional amplifier can be configured as a backup in the event the primary amplifier fails. Amplifiers are independently powered to eliminate system interruption during a short circuit condition.
- Optional transformer conversion module available for 70.7 volt speaker operation.
- Supports charging up to 26AH batteries.

ECC-FFT Fire Fighter Telephone

- Provides supervision, annunciation, and control for up to 24 remote telephone handsets.
- Built-in auto-program feature for quick installation.
- Can be wired for class A (Style 6 or Style 7) or class B (Style 4) configuration.
- Can be configured for Multi-Phone Jack Audio Circuit supervision.
- Allows simultaneous operation of up to 10 firefighter remote handsets.
ECC-LOC
Local Operator Console
- Provides complete control and has an interface similar to the ECC-50/100
- Includes built-in microphone for ALL CALL paging along with message control.
- A maximum of 8 ECC-LOCs (or combination of other remote display consoles).

ECC-RPU
Remote Page Unit
- Includes built-in microphone for ALL CALL paging along with message control.
- A maximum of 8 ECC-RPUs (or combination of other remote display consoles).
- Additional 9th button can be used to activate an optional monitor module that can be mounted inside the cabinet for applications such as HVAC shutdown.

ECC-RM Remote Microphone
- Includes built-in microphone for ALL CALL paging over available speaker zones.
- A maximum of 8 ECC-RMs (or combination of other remote display consoles).

ECC-RTZM Remote Telephone Zone Module
- Module allows authorized personnel access to the system via any telephone.
- Remote users have the ability to initiate prerecorded messages or make live announcements.

ECC-50DA, ECC-50BDA, and ECC-125DA
Distributed Audio Amplifiers
- Externally mounted amplifiers provide an additional 50 or 125 watts of addressable audio power when connected to the ECC-50/100.
- Up to 8 distributed amplifiers can be connected to the ECC-50/100 for a total of 1100 watts of audio power.
- Includes 4 built-in speaker circuits, which are expandable to 8 circuits with an optional ECC-CE4 module (a maximum of 24 audio circuits).
- Speaker output voltage is field configurable on ECC-50DA for either 25 volts or 70.7 volts of operation.
- Includes a built-in power supply and backup battery charger.
- ECC-50BDA provides 50 watts of power with 50 watts as backup. It can also provide 100 watts of power (100 watts primary and 50 watts of backup power requires ECC-50WBU).
Conventional Fire Control Panels

Fire-Lite’s 24-volt conventional fire alarm control panels (FACPs) bring the latest in microprocessor technology to conventional fire controls. With 2-zone, 4-zone, 5-zone, and 10-zone configurations, these units offer options to meet most local, state, and national requirements in the most efficient and effective way possible.

**MS-2**
- 2 initiating zones that are compatible with 2- and 4-wire smoke detectors, 1 zone programmable for combo, supervisory, and waterflow.
- 1 Notification Appliance Circuit (NAC) with built-in horn/strobe synchronization.
- 3.0 amps maximum alarm current.

**MS-4**
- 4 initiating zones that are compatible with 2- and 4-wire smoke detectors, 1 zone programmable for combo, supervisory, and waterflow.
- 2 Notification Appliance Circuits (NAC) with built-in horn/strobe synchronization.
- Optional module converts all 4 initiating zones and 2 NACs to Class A.
- 3.0 amps maximum alarm current expandable to 6.0 amps with optional second transformer.

**MS-5UD**
- 5-zone Style B (Class B) or 5-zone Style D (Class A) with optional module.
- 3.0 amps maximum alarm current.

**MS-10UD**
- 10-zone Style B (Class B) or 10-zone Style D (Class A) with 2 optional modules.
- 7.0 amps maximum alarm current.

**MS-5UD/MS-10UD Shared Features and Specifications**
- 4 NAC Circuits Style Y (Class B) or 4 NAC Circuits Style Z (Class A) with optional modules.
- Built-in horn/strobe NAC synchronization with Remote Synchronization Output.
- Integral 80-character LCD display with backlighting and keypad.
- Annunciator bus supports up to 8 devices, including ANN-80 LCD Remote Annunciator, ANN-S/PG remote serial or parallel printer gateway, ANN-RLY, 10 form C relay board, ANN-LED Zone annunciator, and ANN-I/O LED driver board for graphic annunciators.
- Built-in 2-line digital communicator for off-premises monitoring.
- 3 Form-C programmable relays.

Releasing Control Panels

Designed to meet the most demanding conventional releasing applications with the flexibility and reliability typically found only in advanced systems, Fire-Lite’s Deluge/Preaction and Agent Release models offer rich features such as built-in, easy-to-use programming templates, adjustable delay timers, and more for customized protection.

MRP-2001
Deluge/Preaction Control Panel

- 6-zone Style B (Class B) or 6-zone Style D (Class A) with optional modules.
- 4 Programmable Output Circuits Style Y (Class B).
- Outputs programmable for Releasing Solenoids.
- Dual hazard operation.
- Adjustable waterflow discharge timer and 2 soak timers.
- Cross-zone capability.
- Pre-programmed and custom application templates.
- Built-in NAC synchronization.
- Built-in programmer.
- Annunciator bus supports up to 8 devices, including ANN-80 LCD Remote Annunciator, remote serial or parallel printer gateway, and LED graphic annunciator.

MRP-2002
Agent Release Control Panel

- 6-zone Style B (Class B) or 6-zone Style D (Class A) with optional modules.
- 4 Programmable Output Circuits Style Y (Class B).
- Outputs programmable for Releasing Solenoids.
- Dual hazard operation.
- Adjustable pre-discharge, discharge, and waterflow delay timers.
- Programmable Abort operation.
- Cross-zone capability.
- Pre-programmed and custom application templates.
- Built-in NAC synchronization.
- Built-in programmer.
- Annunciator bus supports up to 8 devices, including ANN-80 LCD Remote Annunciator, remote serial or parallel printer gateway, and LED graphic annunciator.
Synchronized Power Supplies

Fire-Lite’s FCPS-24FS6 and FCPS-24FS8 are recognized as the benchmark for dependable fire alarm power supplies. Featuring built-in System Sensor®, Wheelock®, and Gentex® strobe synchronization, these UL 9th Edition listed power devices can be cascaded with strobe timing maintained to meet any installation requirement.

FCPS-24FS6
FCPS-24FS8
- 24 volt, 6 or 8 amp versions available.
- 4 Class B (Style Y) Class A (Style Z) outputs.
- Built-in Strobe Synchronization for ADA Compliance.
- Built-in 18 amp Hour Battery Charger.
- Operates as a sync follower or a sync generator (default).

Pull Stations

BG-12 Series
The BG-12 is a cost-effective, non-coded series of fire alarm pull stations. They are available in both conventional and addressable versions, including single and dual action, with either key lock or hex key. The BG-12 series is typically specified and is a go-to for most architects and engineers.

BG-8
The BG-8 is a conventional, single-action metal fire alarm pull station for jurisdictions where metal pull stations are required.

Annunciators

ANN-80 and ANN-100
The ANN-80/100 are compact, backlit 80-character LCD fire annunciators. Both mimic the FACP display and provide system status indicators for AC, power, alarm, trouble, supervisory and alarm silence conditions. ANN-100 is FM and ULC approved.

ANN-LED
The ANN-LED annunciator module provides LED annunciation of general system faults, and input zones and points when used with a compatible FACP. It provides alarm, trouble, and supervisory indication for up to 10 input zones or addressable points.

ANN-I/O
The ANN-I/O is a LED driver module that can be used with a FACP to drive most customized graphic annunciators. It comes in a plastic enclosure that may be mounted inside a custom annunciator or accessory cabinet, and can drive up to 40 LEDs.
Addressable Smoke Detection

Fire-Lite is always at the forefront of future detection code requirements. Our new line of addressable detectors, bases, and accessories maintain the same performance offered by previous core devices, now with a more modern look.

SWIFT® – Smart Wireless Integrated Fire Technology

SWIFT wireless addressable devices provide secure communication to the FACP across a Class A mesh network. SWIFT technology can be used in parallel with wired systems, allowing wireless devices to be added alongside wired devices on the same system.

SWIFT Gateway

Using the W-GATE gateway, the FACP views SWIFT wireless devices as additional addressable devices on the system, providing similar detection functions and outputs as a wired counterpart.

SWIFT Devices

The SWIFT line offers a variety of device options including photoelectric, photo/thermal, fixed heat, and rate-of-rise heat detectors, pull stations, AV bases, and relay, monitor and sync modules.

SWIFT Tools

Employ a wireless transmitter (W-USB) to aid in the site survey, mesh formation, and diagnostics of the system.

IP/Cellular Communicators

HWF2V-COM (Verizon) and HWF2A-COM (AT&T) LTE fire alarm communicators represent a leading-edge internet and/or LTE cellular communications solution for monitoring fire alarm systems and easily install using AlarmNet. Fast, secure, and effective alarm communications technology enables connection to any Contact-ID fire panel.

CELL-CAB-FL and CELL-MOD

The CELL-CAB-FL and CELL-MOD are additional, easy-install cellular communicator options for Fire-Lite addressable FACPs. The compact, integrated designs add cellular reporting to the Endurance Series FACPs, while eliminating the need for separate dialer capture modules and special programming to reduce cost.
Example of a Complete Fire Alarm System

- **ES-50X** Fire Alarm Control Panel
- **CELL-CAB-FL** Fire Communicator
- **SD365** Photo Detector
- **SD365CO** Multi-criteria Detector
- **H365** Heat Detector
- **H365R** Heat Detector
- **H365T** Heat Detector
- **MDF-300** Dual Monitor Module
- **SD365T** Photo/Thermal Detector
- **MMF-300** Monitor Module
- **CRF-300-6** Six-Relay Control Module
- **CMF-300-6** Six-Circuit Supervised Control Module
- **MMF-302-6** Six-Zone Interface Module
- **MMF-300-10** Ten Input Monitor Module
- **ISO-6** Six Output Isolator Module
- **W-GATE** Wireless Gateway
- **W-SD355** Wireless Photo Detector
- **W-H355** Wireless Heat Detector
- **MMF-302** 2-Wire Detector Monitor Module
- **D355PL** Duct Detector
- **W-MMF** Wireless Monitor Module
- **W-WG12LX** Wireless Pull Station
- **W-SYNC** Wireless Sync Module
- **W-BG12LX** Wireless Pull Station
- **W-SYNC** Wireless Sync Module
- **FCPS-24FS6** Power Supply
- **FCPS-24FS8** Power Supply
- **P2RL** Strobe
- **W-SD355** Wireless Photo Detector
- **W-H355** Wireless Heat Detector
- **OSI-RI-FL** Beam Detector
- **BG-12LX** Pull Station
- **W-MMF** Wireless Monitor Module
- **CAR-50** Primary Operator Console
- **ECC-50/100** Primary Operator Console
- **ECC-50DA** Distributed Audio Amplifiers
- **ECC-50BDA** Distributed Audio Amplifiers
- **ECC-125DA** Distributed Audio Amplifiers
- **ECC-LOC** Local Operator Console
- **ECC-RP** Remote Paging Unit
- **ECC-RPU** Remote Paging Unit
- **SPWL** Speaker
- **SPRL** Speaker
- **SPSRL** Speaker/Strobe
- **W-Sync Module**
### Quick Reference Guide

#### Conventional Fire Alarm Control Panels

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<thead>
<tr>
<th>Features</th>
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<th>MS-4</th>
<th>MS-5UD</th>
<th>MS-10UD</th>
<th>ES-50X</th>
<th>ES-200X</th>
<th>MS-9600UDLS</th>
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<td>Yes</td>
<td>Yes</td>
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<td>N/A</td>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Built-in Sync-Selective Silence</td>
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<td>Yes</td>
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<td>UL, CSFM, MEA</td>
<td>UL, CSFM, MEA</td>
<td>UL, CSFM, MEA, FM</td>
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#### Addressable Fire Alarm Control Panels

<table>
<thead>
<tr>
<th>Features</th>
<th>MS-9600UDLS</th>
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<tbody>
<tr>
<td>Number of Zones/Loops</td>
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<tr>
<td>Supports System Sensor i3 Detectors with Freeze Warning</td>
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<td>Notification Circuits</td>
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<td>Notification Power (Amps)</td>
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<td>Supports Upload/Download</td>
<td>Built-in</td>
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<td>Works with IP Communicator</td>
<td>Built-in</td>
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<td>Battery Range (in Amp Hours)</td>
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<td>Trouble Contact</td>
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<td>Supervisory Contact</td>
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<td>Supports Printer</td>
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#### Digital Alarm Communicator Transmitters

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<tr>
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<th>411UDAC</th>
<th>IPDACT-2UD</th>
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<th>MRP-2002</th>
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#### Releasing Control Panels

<table>
<thead>
<tr>
<th>Features</th>
<th>MRP-2001</th>
<th>MRP-2002</th>
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</thead>
<tbody>
<tr>
<td>Auxiliary Input</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Alarm Contact</td>
<td>No</td>
<td>Option (Prog.)</td>
</tr>
<tr>
<td>Trouble Contact</td>
<td>No</td>
<td>Option (Prog.)</td>
</tr>
<tr>
<td>Supervisory Contact/Output</td>
<td>No</td>
<td>Option (Prog.)</td>
</tr>
<tr>
<td>Optional Remote Annunciator</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Supports Printer</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>