

 **Fire-LITE® Alarms**
by Honeywell

Innovation that Endures



www.firelite.com

Addressable Fire Alarm Control Panels



MS-9050UD, MS-9200UDLS and MS-9600LS/MS-9600UDLS Addressability Within Reach

Fire-Lite Alarms' addressable product offering includes three Fire Alarm control panels that vary in size and capability to meet a wide range of needs, while offering superior value and flexibility. Our addressable product line offers ease of installation and programming, addressable point identification, built-in digital communication, and NAC synchronization. Our super fast LiteSpeed™ protocol ensures that the safety and security of your building and its occupants are always met with the utmost urgency. Fire-Lite's addressable product line sets the benchmark for Fire protection with its innovative, non-proprietary, cost effective products.

Included features on our most popular addressable panels:

- Ability to connect devices via unshielded "fire" wire up to 10,000 feet, allowing for easier retrofits and less install time
- Autoprogram locates and programs the panel for each device and ensures correct addressing and device type
- All electronics mounted on chassis, which can be changed by removing only two nuts, for faster change-outs and easier upgrades
- Notification appliance circuits have built-in synch for the industry's leading manufacturers including System Sensor®, Wheelock® and Gentex®
- Compatibility with Fire-Lite's Internet/Fire Communicators, for communicating alarms over WAN or LAN to the central station

MS-9050UD

- Single SLC that provides support for 50 addressable devices (any combination of addressable detectors and modules)
- Integrated DACT for off-premises monitoring
- Annunciator bus supports up to 8 devices, including ANN-80 LCD remote annunciator, remote serial or parallel printer gateway, and LED graphic annunciator
- Auto programming feature quickly configures detectors and modules
- Two programmable Class B / A notification appliance circuits (NAC)

MS-9200UDLS

- Single SLC provides support for 198 addressable devices
- LiteSpeed protocol for SLC communication polls 10 devices at a time and operates on standard, unshielded wire
- Built-in digital communicator for off premises monitoring and remote up/download
- Four programmable Class B / A notification appliance circuits (NAC)
- 3 amp total shared power supply expandable to 6 amps of notification power with optional transformer
- Supports up to 32 optional LCD-80F or ACS LED annunciators

MS-9600LS/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
- Autoprogrammable function reduces installation time
- Advanced Fire Technology includes sensitivity testing and automatic drift compensation
- Four programmable Class B / Two Class A notification appliance circuits (NAC)

SWIFT® Wireless Devices

SWIFT wireless addressable devices provide secure, reliable communication to the Fire Alarm Control Panel (FACP) across a Class A mesh network. Great for applications where it is costly, obtrusive, or possibly dangerous to use traditional wired devices.



W-GATE Gateway

Using the SWIFT gateway, the FACP views the SWIFT wireless device as another addressable device 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, standard and rate of rise heat detectors as well as a relay and monitor module.

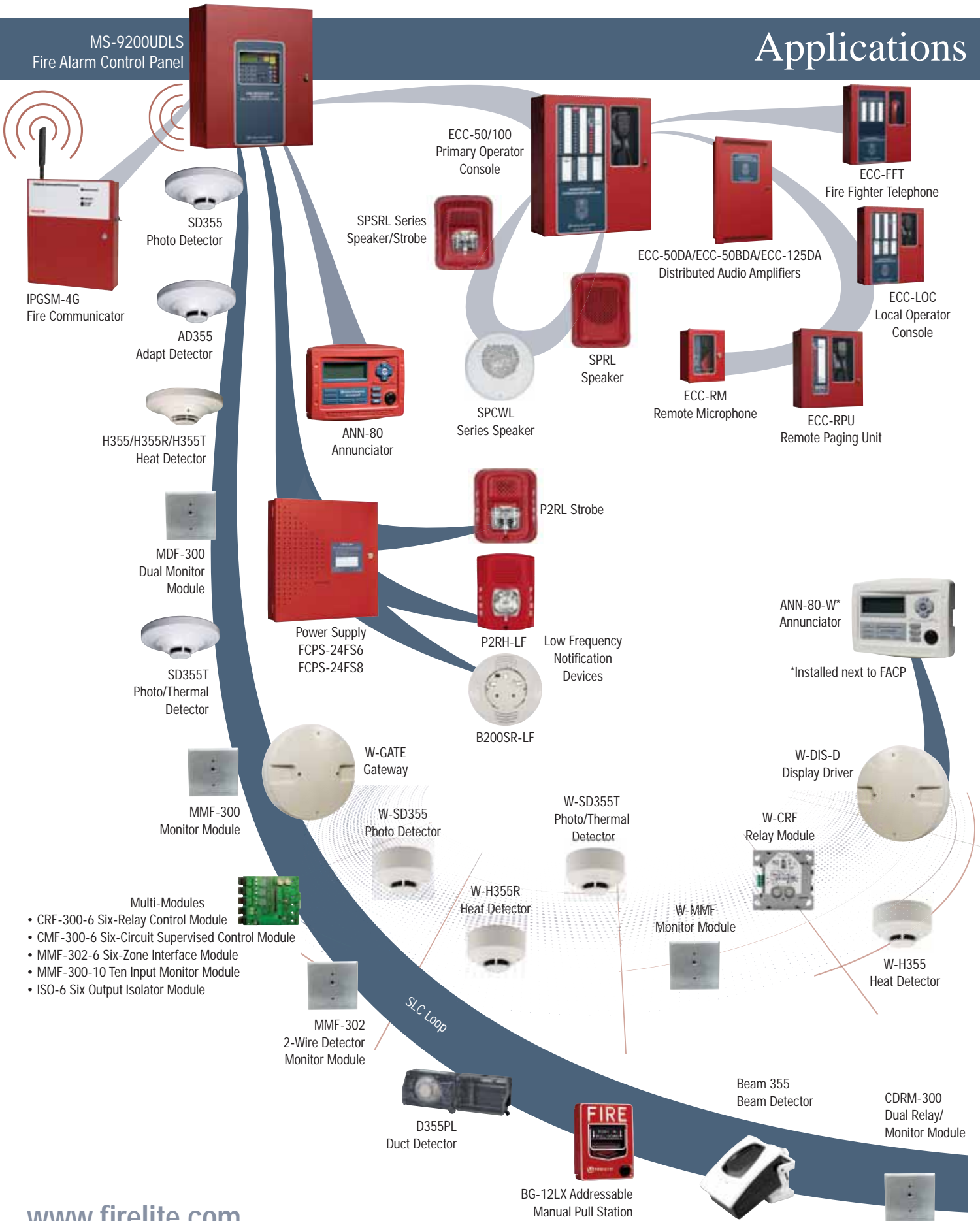


ANN-80W Annunciator

Fire-Lite fire alarm control panels require W-DIS-D and ANN-80W to display wireless specific messages.

MS-9200UDLS
Fire Alarm Control Panel

Applications



Emergency Voice Evacuation / Mass Notification

Emergency Communications/Mass Notification is about delivering critical messages when they matter most. Our Emergency Command Center (ECC) leverages advanced technology and our 60+ years of life safety dedication and unrestrictive, non-proprietary products. The ECC is ideal for any stand-alone building that needs a flexible, multi-zoned and highly configurable fire evacuation and mass notification system that's easy to install and 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 Fire Alarm control panels. (Messages can be initiated by using a dry contact or via a Fire Alarm NAC circuit)
- Includes a single 25V, 50 watt speaker circuit. (Upgradable to 100 watts and two speaker circuits with optional amplifier)
- Speaker circuits are expandable by up to eight (8) outputs (With an optional ECC-CE6 module)
- Includes 14 pre-recorded 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 70.7V speaker operation
- Supports charging up to 26AH batteries

ECC-50DA / ECC-50BDA / 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 eight distributed amplifiers can be connected to the ECC-50/100 for a total of 1100 watts of audio power
- Includes four built-in speaker circuits which are expandable to eight 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 50W of power with 50W as back-up. It can also provide 100W of power (100W primary and 50W of back-up power requires ECC-50WBU)

ECC-RTZM

Remote Telephone Zone Module

- Module allows authorized personal access to the system via any telephone
- Remote users have the ability to initiate pre-recorded messages or make live announcements

ECC-LOC

Local Operator Console

- Provides a complete control and interface like the ECC-50/100
- Includes built in microphone for ALL CALL paging along with message and zone control
- A maximum of eight 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 eight 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 eight ECC-RMs (or combination of other remote display consoles)

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



Conventional Fire Control Panels



Fire-Lite's 24 Volt conventional fire alarm control panels bring the latest in microprocessor technology to conventional fire controls and are easy-to-install, program and operate. With two-zone, four-zone, five-zone and ten-zone configurations, these units offer a variety of options to meet most local, state and national requirements.

MS-2

- Two initiating zones compatible with 2- and 4-wire smoke detectors, one zone programmable for combo, supervisory and waterflow
- One Notification Appliance Circuit (NAC) with built-in horn/strobe synchronization for System Sensor®, Wheelock® or Gentex® with selectable silence
- 3.0 amps total usable current

MS-4

- Four initiating zones compatible with 2- and 4-wire smoke detectors, one zone programmable for combo, supervisory and waterflow
- Two NACs with built-in horn/strobe synchronization for System Sensor®, Wheelock® or Gentex® with selectable silence
- Optional module to convert all four initiating zones and two NACs to Class A
- Compatible with System Sensor's smoke detectors, providing "EZ Walk Test" and a Remote Maintenance Signal (panel is offered as i3 Ready, no additional modules needed)
- 3.0 amps total usable current and expandable to 6.0 amps total with optional second transformer
- Options include a plug-in 4XTMF transmitter module, a 4XLMF module to support LED annunciators, and a plug-in 4XZMF zone relay module

MS-5UD

- Five-zone Style B (Class B) or Five-zone Style D (Class A) with optional module
- Four NAC Circuits Style Y (Class B) or Four NAC Circuits Style Z (Class A) with optional modules
- Built-in NAC synchronization for System Sensor®, Wheelock®, Gentex®, Faraday® and Amseco® devices
- 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 two-line digital communicator for off premises monitoring
- Three Form-C programmable relays
- 3.0 amps total usable current

MS-10UD

- Ten-zone Style B (Class B) or Ten-zone Style D (Class A) with optional module
- Four NAC Circuits Style Y (Class B) or Four NAC Circuits Style Z (Class A) with optional modules
- Built-in NAC synchronization for System Sensor®, Wheelock®, Gentex®, Faraday® and Amseco® devices
- Built in programmer: 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 two-line digital communicator for off premises monitoring
- Three Form-C programmable relays
- 7.0 amps total shared power

Synchronized Power Supplies

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

FCPS-24FS6/FCPS-24FS8

- 24 volt, 6 or 8 amp versions available
- Four 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)



Releasing Control Panels



Fire-Lite's releasing panels are designed to meet the most demanding conventional releasing applications. With the flexibility and extra high reliability found typically only in advanced systems, the Deluge/Preaction and Agent release models offer a host of features, such as built-in easy-to-use programming templates.

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 two soak timers
- Cross-zone capability
- Pre-programmed and custom application templates
- Built-in NAC synchronization for System Sensor®, Wheelock®, Gentex®, Faraday® and Amseco® devices
- 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
- Four 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 for System Sensor®, Wheelock®, Gentex®, Faraday® and Amseco® devices
- 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

Annunciators



ANN-80 Series

The ANN-80 is a compact, backlit, 80-character LCD fire annunciator that mimics the Fire Alarm Control Panel (FACP) display. It provides system status indicators for AC Power, Alarm, Trouble, Supervisory, and Alarm Silenced conditions.



ANN-LED

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



ANN-I/O

The ANN-I/O is an LED driver module that can be used with a Fire Alarm Control Panel 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.

Pull Stations



BG-12
BG-12LX
BG-12SP

BG-12 Series

The BG-12 Series is a cost-effective, non-coded series of fire alarm pull stations. Available in both conventional and addressable versions, including single and dual actions, with either key lock or hex key, these Lexan® pull stations are typically specified and desired by most architects and engineers.

BG-8

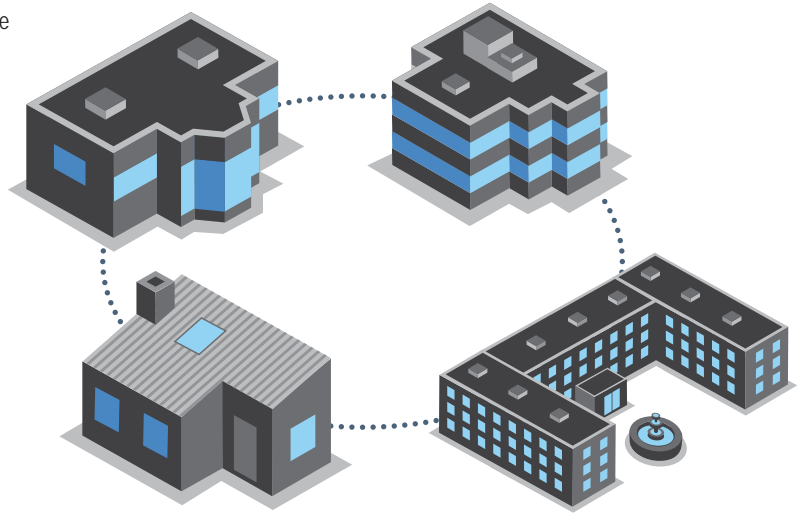
The BG-8 is a conventional, single action metal fire alarm pull station for those jurisdictions where metal pull stations are still required.



Lite-Connect™ Fiber Solution

Lite-Connect™ is a solution that allows building owners to reduce the number of phone lines by consolidating the central station communications to a single MS-9050UD panel. Using fiber-optic technology, the panels are connected together and the MS-9050UD sends point or zone information for the entire system. In addition, building to building connections with fiber avoid potential ground fault issues and damage caused by lightning strikes.

- Each FACP (main MS-9050UD and remote panels) requires its own ANN-LC module
- Up to 16 remote panels (MS-9050UD and MS-9200UDLS)
- Fiber optic panel to panel connections to avoid potential ground faults or lightning strike issues
- Connects to the ANN-BUS of the fire panel and requires minimal programming
- Class B or Class A operation for survivability



IP/Cellular Communicators

Internet Fire Communicator

Designed to work with later-model Contact ID and DACT-equipped Fire-Lite fire panels, the IP Communicator sends information over any type of Ethernet network connection to a central station equipped with a compatible Teldat VisorALARM® IP receiver. The IP Communicator supervises the connection to the central station every 90 seconds, providing faster detection of a connection fault and saves the cost of dedicated redundant phone lines.



IPGSM-4G

The IPGSM-4G Fire Alarm Communicator represents a leading edge Internet and/or GSM cellular communications solution for monitoring Fire Alarm systems. Its fast, secure and effective alarm communications technology allows the connection to any Contact-ID fire panel and easily installs using Alarmnet. It also saves recurring job-site costs when dedicated phone lines are replaced, making the IPGSM-4G a product that truly pays for itself!

Telephone Line Communicators

411 Series

The 411 Series is a compact, slave and Stand-Alone Digital Alarm Communicator Transmitters (DACTs). DACTs are programmable for a variety of fire, supervisory, trouble, and non-fire applications. The series consists of the 411, 411UD and 411UDAC products. The 411 provides three supervised monitoring inputs/channels, while the 411UD and 411UDAC provide four inputs/channels. The 411 and 411UD are cost-effective solutions for slave applications that require a control panel to transmit system status to an offsite monitoring facility. The 411UDAC can also provide slave communication, however its primary function is a Stand-Alone Communicator. The 411 and the 411UD can be used with the IP Communicator to monitor the alarm trouble and supervisory relays of any competitive fire panel.



Quick Reference Guide

Conventional Fire Alarm Control Panels					Addressable Fire Alarm Control Panels		
Feature	MS-2	MS-4	MS-5UD	MS-10UD	MS-9050UD	MS-9200UDLS	MS-9600UDLS
Panel Voltage	24	24	24	24	24	24	24
Addressable Points	N/A	N/A	N/A	N/A	50	198	636 (2 loops)
LiteSpeed™ Protocol	N/A	N/A	N/A	N/A	No	Yes	Yes
Number of Zones	2	4	5	10	20	99	99
Class A or B Initiating Zones	B Only	B or A option	B or A option	B or A option	A or B	A or B	A or B
Supports System Sensor i3 Detectors with Freeze Warning	Yes	Yes	Yes	Yes	N/A	N/A	N/A
Notification Circuits	1	2	4 (A or B)	4 (A or B)	2 (A or B)	4 (A or B)	4 (A or B)
Notification Power (Amps)	3	3.0-6.0	3	7	2.5	3.0-6.0	7
Communicator	411 Series	411 Series	Built-in	Built-in	Built-in	Built-in	Built-in
Supports Upload/Download	No	No	Remote or Local	Remote or Local	Remote or Local	Remote or Local	Remote or Local
Works with IP Communicator	No	No	Yes	Yes	Yes	Yes	Yes
Battery Range (in Amp Hours)	7.0-18	7.0-18	7.0-18	7.0-26	7.0-18	7.0-18	7.0-26
Alarm Contact	Yes	Yes	Programmable	Programmable	Programmable	Programmable	Programmable
Trouble Contact	Yes	Yes	Programmable	Programmable	Programmable	Yes	Yes
Supervisory Contact	No	Yes	Programmable	Programmable	Programmable	Programmable	Programmable
Reverse Polarity Transmitter	Option	Option	Option	Option	Option	Option	Option
Temporal Coding	Yes	Yes	Programmable	Programmable	Programmable	Programmable	Programmable
Optional Remote Annunciator	No	Yes	Yes	Yes	Yes	Yes	Yes
Built-in Sync-Selective Silence	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Supports Printer	No	No	Option	Option	Option	Option	Yes
Listings	UL, CSFM MEA	UL, CSFM MEA	UL, CSFM, MEA, FM	UL, CSFM, MEA, FM	UL, CSFM, MEA, FM	UL, CSFM, MEA, FM	ULC, CSFM, MEA, FM

Fire Alarm Panel Communicators				Releasing Control Panels		
Feature	411	411UD	411UDAC	IPDACT-2UD	MRP-2001	MRP-2002
Input DC Voltage	12/24	12/24	12	12/24	24	24
Number of Zones/Channels	3	4	4	Addressable	6	6
Class A or B Zones	B	B	B (one A)	N/A	B or A Option	B or A Option
Control Communicator	Slave Comm.	Slave Comm.	Stand-Alone or Slave Comm.	Slave Comm. Contact ID Only	No	No
Remote Upload/Download	No	Yes	Yes	Yes	No	No
No. of Notification Circuits	N/A	N/A	1	N/A	4	4
Supports System Sensor i3 Detectors with Freeze Warning	N/A	N/A	N/A	N/A	Yes	Yes
Notification Power (Amps)	N/A	N/A	1	N/A	7	7
Battery Range (in Amp Hours)	N/A	N/A	Up to 14.0	N/A	7.0-26	7.0-26
Aux Input	No	No	No	Yes	N/A	N/A
Alarm Contact	No	Option (prog.)	Option (prog.)	No	Programmable	Programmable
Trouble Contact	No	Option (prog.)	Option (prog.)	No	Programmable	Programmable
Supervisory Contact/Output	No	Option (prog.)	Option (prog.)	Yes	Programmable	Programmable
Optional Remote Annunciator	No	No	No	No	Yes	Yes
Supports Printer	No	No	No	No	Yes	Yes
Listings	UL, ULC, CSFM, MEA	UL, ULC, CSFM, MEA	UL, ULC, CSFM, MEA	UL, CSFM	UL, CSFM, MEA, FM	UL, CSFM, MEA, FM



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