



**COMPLETE FIRE DETECTION
AND NOTIFICATION SOLUTIONS**

INTELLIGENT FIRE ALARM & AUDIO NETWORK SOLUTION



NYC
Fire Dept



THE MOST VERSATILE AND POWERFUL SYSTEMS IN THE INDUSTRY.

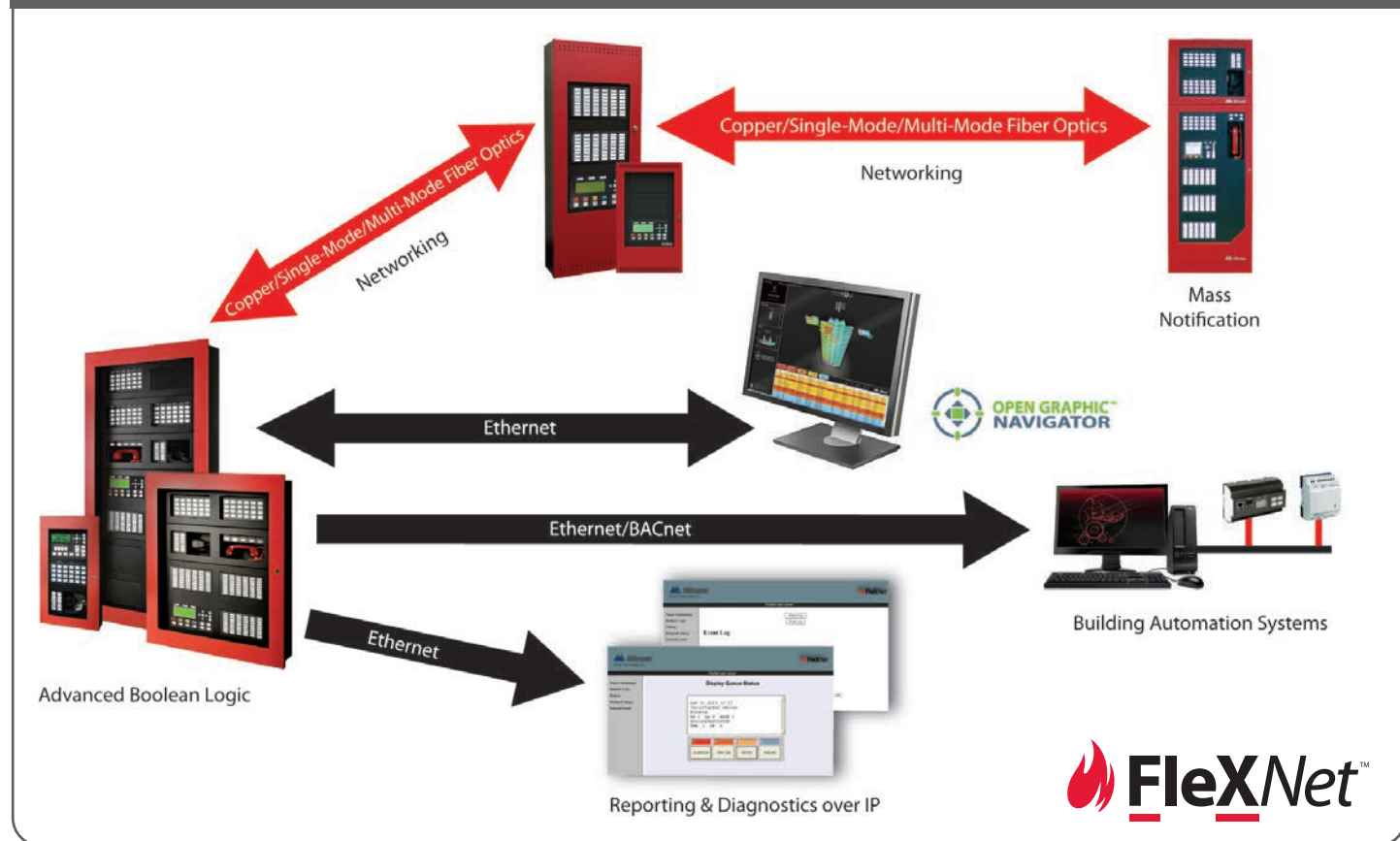
Mircom's Flex-Net FX-4000N Series is a powerful intelligent networkable fire alarm solution designed for medium to large-scale facilities to meet virtually any application of detection, control, notification, and emergency communications. Features such as fire detection & alarm, audio/voice evacuation, BACnet, Boolean logic, networking and graphical work stations allow this modular solution to accommodate the simplest systems up to the most complex solutions.

Flex-Net FX-4000N supports multiple intelligent protocols and 520 Hz on both the addressable loop and through the audio/voice evacuation, Mircom's Flex-Net FX-4000N Series is poised to take you even further into the future with expanded capabilities.

- Advanced Protocol (AP)
- MIX-4000 Devices
- Classic Loop Interface Protocol (CLIP)
- Fire/CO support
- 520Hz support
- Audio/Voice Evacuation
- Boolean Logic
- Open Graphic Navigator
- HVAC Fan and Damper Control
- Building Management Systems (BMS)
- Multiple System Configurations Supported
- 63 Nodes per System
- Copper Single Mode or Multi-Mode Fiber Optic Networking



FLEX-NET MASS NOTIFICATION COMMUNICATION FLOW





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INTELLIGENT FIRE ALARM & EMERGENCY COMMUNICATIONS NETWORK

Mircom's Flex-Net Mass Notification System (MNS) is designed to provide real-time information to all building occupants or personnel in the immediate vicinity of a building during emergency situations. The system allows for real-time information regarding the type of emergency as well as safely instructing people on where to go and what to do.

Mass Notification

- Supervision of all Mass Notification (MNS) equipment
- Auxiliary inputs for general paging, background music, or other non-emergency functions
- One-Way and Two-Way EVACS capability
- Voice message priority according to risk analysis and emergency response plan

Fire Alarm Control

- Base system is expandable up to 28 SLCs.
- Advanced Protocol (AP) supports up to 318 devices per SLC (159 sensors & 159 modules)
- MGC Protocol supports up to 240 MIX-4000 devices (240 sensors and modules) per SLC
- Four Style Z/Y (Class A/B) Notification Appliance Circuits rated at 1.7 Amps each

Audio Control

- Multi-channel operation
- Distributed audio
- Compatible with 520Hz low frequency signal by Mircom
- 25 or 70 volt system
- Multiple amplifier sizes
- Max. of 180 watts per Integrated Fire & Audio panel
- Expansion to three 360 watts expansion cabinets for a total of 1260 watts of audio power per node

Network Features

- Up to 63 nodes



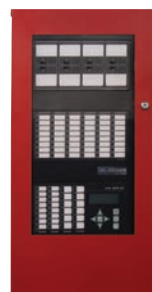
COMPACT NETWORK PANEL

Up to 8 Intelligent Signaling Line Circuits (SLC) with up to 3 expansion modules



MNS COMMAND CENTER AND AUDIO NETWORK NODE

Expandable to 20 Intelligent Signaling Line Circuits (SLC) with paging, telephone and allows for up to 180 watts per panel.



EXTENDED COMPACT NETWORK PANEL

Expandable to 20 Intelligent Signaling Line Circuits (SLC) with up to 9 expansion modules, available in a variety of enclosures.



AUDIO EXPANSION PANEL

Provides up to 3 audio expansion panels for an additional 1,080 watts of audio per node



MID-SIZE NETWORK PANEL

Expandable to 28 Intelligent Signaling Line Circuits (SLC) with up to 17 expansion modules.



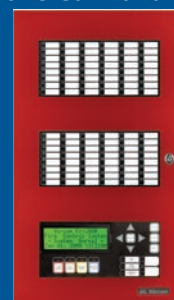
LOCAL OPERATING CONSOLE

Expandable to 7 Local Operating Consoles per panel. Annunciator consoles do not decrease node capacity.

REMOTE ANNUNCIATORS

REMOTE ANNUNCIATORS

Mircom LED and LCD annunciators are offered in a range of configurations to allow custom tailoring of wired or networked information & control center that is best for your application. Where other system manufacturers limit configurations of zone graphics, mode and by-pass switches and indicators, Mircom offers a custom solution that best suits your fire detection requirements.



RAM-300LCD

Mircom RAM-300LCD remote annunciators are designed for use with FA-300 and FX-350 Series fire alarm panels and provide 2 by 20 line alphanumeric LCD display and control switches with access to common control menu functions.

Additional enclosures sizes available.

FX-2000 SERIES

INTELLIGENT FIRE ALARM CONTROL UNITS



The FX-2000 Series is ideal for residential, commercial, industrial, and institutional applications. The base system consists of one analog loop and four indicating circuits. In addition the base system supports conventional hard wired modules. With its flexible modular design, the FX-2000 Series can be configured to meet challenging requirements without compromising its easy installation and operation.



- SLCs are selectable for either class A (Style 6) or class B (Style 4) operation
- Four class A/B (Style Z/Y) indicating circuits with provisions for expansion
- Large 4 line by 20 character back-lit LCD display
- Sixteen-zone configurable LED annunciator
- Supports LCD, LED and graphic annunciation
- 198 addressable devices per SLC
- Base system supports 16 conventional hard wired modules with the provision to add more using the ALC-H16 Hard wire Loop Controller Module
- Three level password protection with field programmable definition which enables the installer to determine what functions are accessible for each password level
- Four Alarm Queues with selector switches and LEDs for Alarm, Supervisory, Monitor and Trouble
- 12 Amp power supply
- Correlatable Switch Inputs which allows for multi-functional outputs
- Auxiliary relay contacts for Common Alarm, Common Supervisory and Common Trouble
- RS-232 output for remote system printer or CRT
- Two logs track system event history (2000 events) and alarm event history (1000 events) which can be viewed on screen or sent to a printer for easy analysis and system maintenance
- Front Panel Auto-Configure and/or Computer laptop Programmable
- Common Control switches and/or indicating LEDs for System Reset, Signal Silence, Fire Drill, Acknowledge, General Alarm, Lamp Test, A.C. On, Pre-Alarm and Ground Fault
- Seamlessly integrates to the QX-5000 Voice Evacuation System
- UUKL listed for smoke control

ANNUNCIATORS AND PROGRAMMABLE MODULES

FX-2000 SERIES

The FX-2000 Intelligent Fire Alarm Control Units support programmable modules that can be connected either internally to the fire alarm unit or externally via the RAX-LCD Remote Shared Display. Connection to the RAX-LCD allows for unique configurations for a specific remote location.



REMOTE SHARED DISPLAY

RAX-LCD

- Provides LCD annunciation
- Driver module for standard or reduced zone annunciation
- Driver modules for RAX-1048TZDS, FDX-008 and IPS-2424DS when mounted remotely

PROGRAMMABLE INPUT SWITCHES MODULE

IPS-2424DS

- 24 programmable switches
- Switches operate in a toggle operation
- Indicates status of disconnected zones

IPS-4848DS

- 48 programmable switches
- Switches operate in a toggle operation
- Indicates status of disconnected zones

PROGRAMMABLE LED ANNUNCIATOR MODULE

RAX-1048TZDS

- 48 programmable bi-colored LEDs

FAN DAMPER CONTROL MODULES

FDX-008W

- Fan Damper Control Module with 8 three-position switches and 4 status LEDs per switch

FDX-008WKI

- Fan Damper Control Module with 7 three-position switches, 4 status LEDs per switch and a keyswitch input

MPS-800 SERIES MANUAL PULL STATIONS



Mircom's MPS-800(U) Series Fire Alarm Manual Pull Stations provide manual fire alarm activation. The new MPS-800 Series uses raised symbols and icons instead of printed text that makes them universally recognized.

CONVENTIONAL MANUAL PULL STATIONS

- Available as single stage dual action
- Constructed of high quality polycarbonate resin thermoplastic "LEXAN" that supports high temperatures without deforming
- Temperature range from -40°C ~ 66°C (-40°F ~ 150°F)
- Accessible from the front for wiring while mounted making it easy to install
- Mounts on a single gang backbox
- Indoor/Outdoor use



1 Stage

2 Stage

ADDRESSABLE MANUAL PULL STATIONS

- Available as single or two stage dual action
- Compatible with FX-400 Series and Flex-Net FX-4000N Fire Alarm Panels
- Constructed of high quality polycarbonate resin thermoplastic "LEXAN" that supports high temperatures without deforming
- Temperature range from 0°C ~ 49°C (32°F ~ 120°F)
- Accessible from the front for wiring while mounted making it easy to install
- Mounts on a single gang backbox
- Indoor use only

Conventional Manual Pull Stations	
MPS-810	1 Stage Conventional Double Action Pull Station, ULC
MPS-810U	1 Stage Conventional Double Action Pull Station, UL
Addressable Manual Pull Stations	
MPS-810MP	MP 1 Stage Addressable Double Action Pull Station, ULC
MPS-810MPU	MP 1 Stage Addressable Double Action Pull Station, UL
MPS-802MP	MP 2 Stage Addressable Pull Station, ULC
MPS-822MP	MP Maglock 2 Stage Double Action Pull Station, ULC

INTELLIGENT POWER SUPPLIES



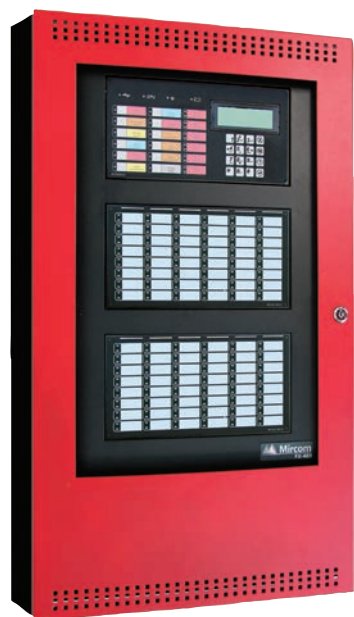
Intelligent NAC expander/power supplies are compatible with the FX-2000, FX-400 Series and Flex-Net Series Intelligent fire alarm control panels. The units can extend the power capabilities of existing notification appliance circuits as well as provide power for other ancillary devices. In addition, Mircom power supplies have the ability to operate with any UL/ULC Listed 24 VDC conventional fire alarm control panel to provide Notification Appliance Circuit expansion.

INTELLIGENT FIRE ALARM DEVICES

FX-2000/FLEX-NET SERIES INTELLIGENT DEVICES



To support the market-leading capabilities of FX-2000 Series control panels, Mircom FX-2000 Series analog addressable sensors, pull stations and modules are designed with advanced features, including sensitivity monitoring, selection and performance in any application.

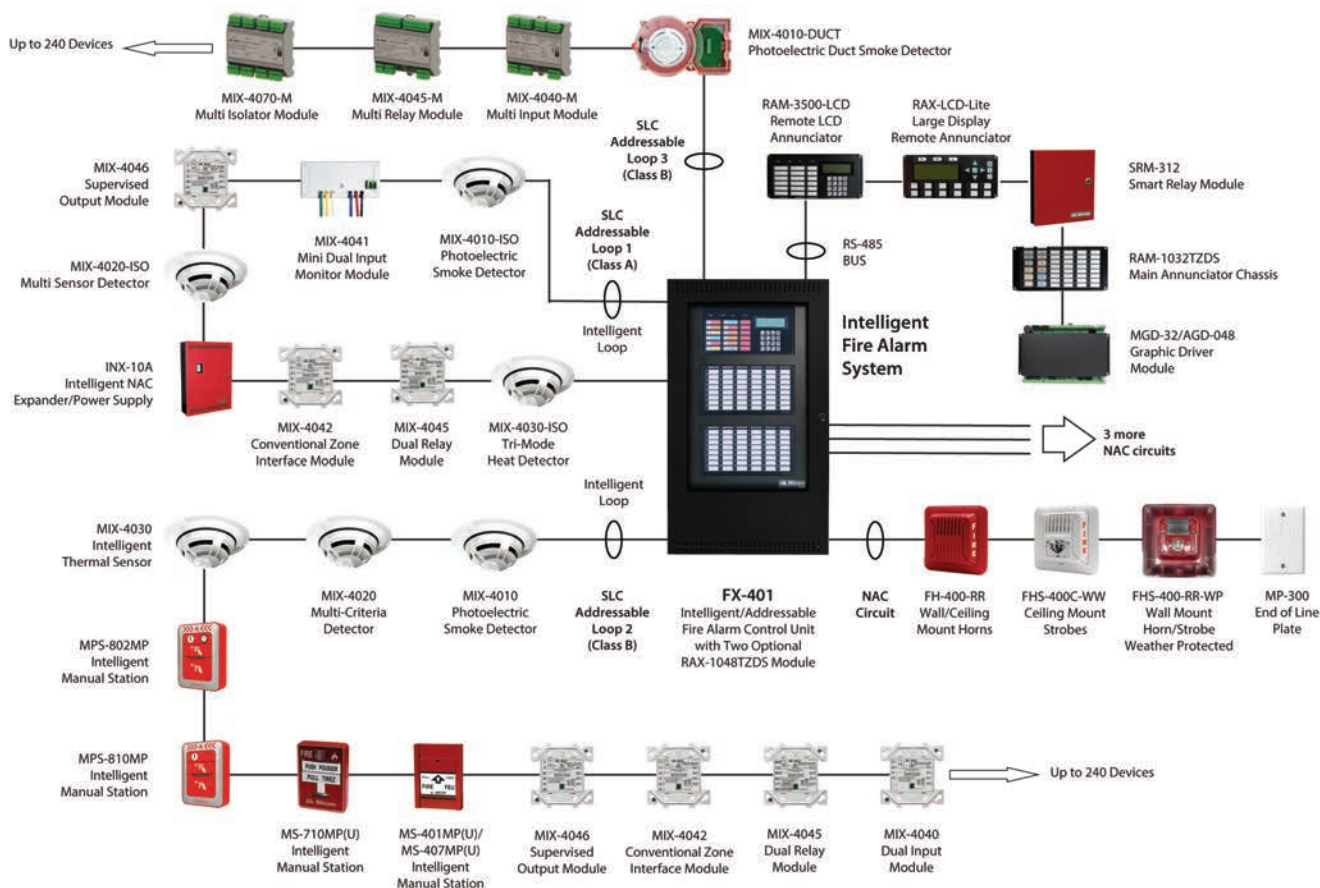


FX-401 INTELLIGENT/ADDRESSABLE FIRE ALARM CONTROL PANEL

The FX-401 Addressable Fire Alarm Control Panel is an intelligent addressable multi-zoned panel, ideal for small to medium jobs. The FX-401 is shipped pre-assembled with mainboard, power supply, black backbox, and black or red door enclosure. Compatible with MGC Devices (MIX-4000 Series), the FX-401 can have up to three addressable (SLC) loop with a maximum of 720 MGC devices in total. The FX-401 is equipped with a built-in dialer. The dialer provides a means to communicate panel status to the remote central monitoring station using two dedicated phone lines.

- Compatible with MGC devices (MIX-4000)
- Compatible with conventional detectors using MGC MIX- 4042 Conventional Zone module, refer to document LT-1023 for compatible detectors
- Main Display with 4 x 20 LCD display
- Four Power Limited Class B, Class A NAC circuits (max 1.5 Amps each - 6.0 Amps total)
- Supports sync strobe protocols from Mircom, System Sensor, Wheelock and Gentex
- Configurable Signal Silence Inhibit, Auto Signal Silence, and One-Man Walk Test
- Software configuration
- Two-stage, alarm verification, and positive alarm sequence operations
- Subsequent Alarm, Supervisory, Monitor and Trouble operation
- Dedicated common alarm, supervisory, trouble, and auxiliary alarm relays
- Additional RAX-1048TZDS Display Adder Module can be added to provide 96 annunciation points per Adder
- Relay Contacts for Common Alarm, Common Supervisory and Common Trouble all non disconnectable and Auxiliary Alarm Relay (disconnectable)

FX-401 SYSTEM DIAGRAM



FX-400 INTELLIGENT/ADDRESSABLE FIRE ALARM CONTROL PANEL

The FX-400 Addressable Fire Alarm Control Panel is an intelligent addressable multi-zoned panel, ideal for small to medium jobs. The FX-400 is shipped pre-assembled with main board, power supply, transformer, main display, black backbox, and black or red door enclosure. Compatible with MGC Devices (MIX-4000 Series), the FX-400 comes with one addressable (SLC) loop with a maximum of 240 MGC devices in total. The FX-400 is equipped with a built-in dialer. The dialer provides a means to communicate panel status to the remote central monitoring station using two dedicated phone lines. The FX-400 supports Class B (Style 4), Class A (Style 6), Class X (Style 7) NAC Circuits (max 1.5 Amps each – 5 Amps total).

- Compatible with MGC devices (MIX-4000).
- Compatible with conventional detectors using MGC MIX-4042 Conventional Zone module, refer to document LT-1023 for compatible detectors.
- Main Display with 4 x 20 LCD display.
- Four Power Limited Class B, Class A NAC circuits (max 1.5 Amps each - 5.0 Amps total).
- Supports sync strobe protocols from Mircom, System Sensor, Wheelock, and Gentex.
- Configurable Signal Silence Inhibit, Auto Signal Silence, and One-Man WalkTest.
- Two-stage, Alarm verification and positive alarm sequence operations.
- Subsequent Alarm, Supervisory, Monitor and Trouble operation.
- Dedicated common alarm, supervisory, trouble, and auxiliary alarm relays.
- Relay Contacts for Common Alarm, Common Supervisory and Common Trouble all non-disconnectable and Auxiliary Alarm Relay (disconnectable)



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MIX-4000 SERIES INTELLIGENT DEVICES AND PROTOCOL

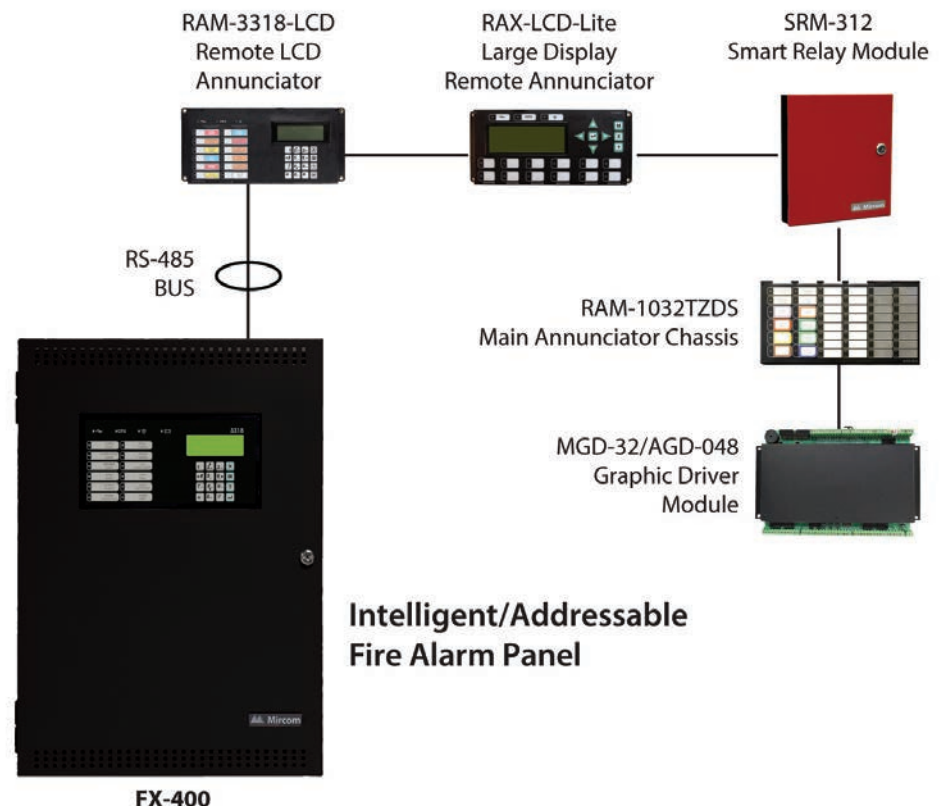


Mircom's MGC Protocol supports up to 240 MIX-4000 devices (240 sensors and modules) per SLC.

Supports:

- Photo, Heat, and Multi-criteria Sensors
- Optional Built-In Isolation on Sensors
- Multiple Input and Multiple Output modules
- Group activation on the output to speed up actions on the outputs

FX-400 SYSTEM DIAGRAM





LED HORNS & HORN STROBES



MGC's Notification Appliances offer an audible/visual solution that delivers exceptional energy efficiency in a compact design. MGC offers multiple field – selectable audible/visual settings, as well as a wide range of mounting options in an easy to install compact unit.

Utilizing advanced LED technology, the MGC Notification Appliances provide a much lower current draw than xenon bulb technology. This in turn allows for more devices on a NAC circuit while reducing the number of external power supplies required.

Designed for indoor/outdoor wall or ceiling mount applications, MGC's Notification Appliances comply agency requirements including the NFPA 72, UL 1971, UL1638, UL1480, ULC S526 and ULC S541.



Wall/Ceiling Mount
Horns



Wall Mount
Strobes



Wall Mount
Horn/Strobes



Weather Protected
Wall/Ceiling Mount Horn

**WEATHER
PROTECTED**



Ceiling Mount
Strobes



Ceiling Mount
Horns/Strobes



Surface Mount
Back Boxes



Weather Protected
Wall Mount Strobe



Weather Protected
Wall Mount Horn/Strobe

FEATURES

- Standard and high candela settings in one unit (Horn Strobe) to meet virtually any application
 - o Wall Mount models:
15, 15/75, 30, 75, 110, 185 cd
 - o Ceiling Mount models:
15, 15/75, 30, 75, 110 cd
 - o Reduction in SKUs to stock
- Multiple field-selectable audible settings
 - o Temporal, Continuous, March Time and 20 BPM audible tones
 - o High and low volume settings
- Weather Protected Devices Temperature ranges from -40°C to 66°C (-40°F to 151°F)

ENERGY EFFICIENT

- Advanced LED technology provides superior current draw performance
 - o Allows for a higher capacity of notification devices per circuit
 - o Eases external power supply requirements

SAFE

- Device settings are located on the back of the unit to prevent tampering
- Compliance
 - o UL 1971, UL 1638, UL 464
 - o ULC-S525, ULC-S526
 - o NFPA 72 2016 Edition (Meets 20 millisecond pulse width requirement)

EASY TO INSTALL

- All models include a mounting plate that allows for the devices to be pre-wired (Horn Strobes)
- Includes shorting clip that allows installers to test the wiring before the device is installed
- Wide range of mounting options
 - o Mount to Mircom BB-400 surface mount back box, single gang, 4-inch square, double gang, octagon and 4-inch junction boxes

Wall/Ceiling Mount Horns	
FH-400-RR	Red
FH-400-WW	White
FH-400-RR-WP	Weather Protected, Red
Wall Mount Strobes	
FS-400-RR	Red
FS-400-WW	White
FS-400-RR-WP	Weather Protected - Red
Wall Mount Horn/Strobes	
FHS-400-RR	Red
FHS-400-WW	White
FHS-400-RR-WP	Weather Protected - Red
Ceiling Mount Strobes	
FS-400C-RR	Red
FS-400C-WW	White
Ceiling Mount Horns/Strobes	
FHS-400C-RR	Red
FHS-400C-WW	White
Surface Mount Back Boxes	
BB-400R	Red
BB-400W	White
Accessories	
MIX-4050	MGC SYNC module

LED SPEAKERS & SPEAKER STROBES



MGC's Speakers and Speaker Strobes extend the notification appliance offering to provide a complete family lineup which utilizes advanced LED technology.

Designed for indoor/outdoor wall or ceiling mount applications, MGC's Speakers and Speaker Strobes are offered in 25/70 V, high candela and red/white options for flexibility.

MGC also offers a trim plate/adaptor kit for retrofit applications where ceiling back box space is limited.

MGC's Speaker and Speaker/Strobes comply with agency requirements including the NFPA 72, UL 1971, UL1638, UL1480, ULC S526 and ULC S541.



Ceiling Mount Speakers



Ceiling Mount Speakers/Strobes



Wall Mount Speakers



Wall Mount Speaker/Strobes



Ceiling Mount Accessories

**WEATHER
PROTECTED**



Weather Protected
Wall/Ceiling Mount Speaker



Weather Protected
Wall Mount Speaker/Strobe

FEATURES

- All models with 25V/70V options
- All models with RED or WHITE options
- Speaker Power Setting: ¼, ½, 1, 2 W
- Built-in Synchronization Candela Settings for Speaker/Strobes
- Wall Mount models: 15, 30, 75, 110, 185, 15/75 cd
- Ceiling Mount models: 15, 30, 75, 110, 125, 15/75 cd
- Ceiling Mount High Candela models: 50, 75, 90, 130, 185, 15/75 cd
- Weather Protected Devices Temperature ranges from -40°C to 66°C (-40°F to 151°F)

ENERGY EFFICIENT

- Advanced LED technology provides ultra low current draw performance
 - o Allows for a higher capacity of notification devices per circuit
 - o Eases external power supply requirements

FLEXIBLE

- Multiple language plastic inserts included with speaker/strobes (English/French/Spanish)

SAFE

- Device settings are located on the back of the unit to prevent tampering
- Compliance
 - o UL 1480, UL 1971 and UL 1638
 - o ULC-S541 and ULC-S526
 - o NFPA 72 (Meets 20 millisecond pulse width requirement)

EASY TO INSTALL

- Wall models can be mounted directly onto a 4" square back box.
- Ceiling model can be mounted on a 6" round flush back box (IB-104)
- Optional spacer (SPKC-W) for mounting on a 4" square electrical box

Ceiling Mount Speakers	
SPP-104-25	White
SPP-104-70	White
SPP-104-25R	Red
SPP-104-70R	Red
Ceiling Mount Speakers/Strobes	
SPPS-104-25	White
SPPS-104-70	White
SPPS-104-25R	Red
SPPS-104-70R	Red
SPPS-104-25H	High candela White
SPPS-104-70H	High candela White
SPPS-104-25HR	High candela Red
SPPS-104-70HR	High candela Red
Wall Mount Speakers	
SPP-204-25	White
SPP-204-70	White
SPP-204-25R	Red
SPP-204-70R	Red
Wall Mount Speaker/Strobes	
SPPS-204-25	White
SPPS-204-70	White
SPPS-204-25R	Red
SPPS-204-70R	Red
SPPS-204-25R-WP	Weather Protected - Red
SPPS-204-70R-WP	Weather Protected - Red
Weather Protected Wall/Ceiling Mount Speakers	
SPP-204-25R-WP	Red
SPP-204-70R-WP	Red
Accessories	
IB-104	6" Back Box
SPKC-W	Spacer/trim ring
MIX-4050	MGC SYNC module

MIX-4000 SERIES

INTELLIGENT DEVICES AND PROTOCOL



Over 25 years in all angles of the fire protection industry.

Over 100 countries, thousands of different applications, 100,000+ installations.

MGC's MIX-4000 Series Devices and Protocol were developed from all of this experience, knowledge & data.

BENEFITS

- Optional Built-in Isolators
- Line Quality Diagnostics
- High reliability, robust to interference
- Fully digital and capability of noise rejection
- Low Standby Current reduces system hardware, cost and complexity
- Simple address programming makes installation & service easy and fast
- Saving installation & service time due to innovative loop monitoring & diagnostic
- Unrestricted device addressing gives complete flexibility to each job, no surprises
- Linear address range allows up to 240 MIX-4000 Series sensors on a loop
- Group commands allow fast response for large application
- Long loop length, up to 5,000ft

COMPATIBILITY

- Compatible with Mircom's FleX-Net-MP Fire Alarm Control Panel and the new ALCN-960MISO and ALCN-960D loop adder cards

Bases	
MIX-4001	6" Detector Base
MIX-4002	4" Detector Base
MIX-4003-S	Sounder Base
MIX-4003-R	Relay Base
Intelligent Sensors	
MIX-4010	Photoelectric Smoke Sensor
MIX-4010-ISO	Photoelectric Smoke Sensor
MIX-4020	Multi Sensor Detector
MIX-4020-ISO	Multi Sensor Detector
MIX-4030	Tri-Mode Heat Detector
MIX-4030-ISO	Tri-Mode Heat Detector
MIX-4010-DUCT	Duct Smoke Detector
Intelligent Modules	
MIX-4040	Dual Input Monitor Module
MIX-4040-M	Multi Input (6/12) Module
MIX-4041	Mini Dual Input Monitor Module
MIX-4042	Conventional Zone Input Module
MIX-4045	Dual Relay Module
MIX-4045-M	Multi Relay (8) Module
MIX-4046	Supervised Output Module
MIX-4050	Sync Module
MIX-4070	Short Circuit Isolator Module
MIX-4070-M	Multi Isolator (8) Module
Accessories	
MIX-4090	Device Address Programming Tool

VOICE EVACUATION SYSTEM



CITY
OF
CHICAGO

QX-5000 SERIES VOICE EVACUATION SYSTEM

Mircom's QX-5000 Series is a multi-channel, zoned audio system that allows the operator to selectively page from a central location to any of the system's audible devices. In addition, the QX-5000 allows for zoned, fire fighter communication with remote telephone handsets that are permanently installed throughout a building. The system has a simple interface to the Fire Alarm Control Unit, and contains its own power supply and battery backup system.

- Multi-channel, zoned voice paging and alarm system
- Multiple lobby capability
- Multiple amplifier sizes
- Zone or All-Call selectability (Alert Evacuation)
- Provides single or multiple command center for use in emergencies
- Removable terminal blocks for ease of installation and maintenance
- Operates from integrated 24VDC backup batteries in the event of a power failure
- Zoned, firefighter telephone capability
- Indication of all required fault conditions
- Speaker circuits are integrated with amplifier circuits
- Multiple amplifier sizes (up to 7 per enclosure)
- Maintains full supervision during battery operation
- Digitized voice capability



VOICE EVACUATION DIAGRAM

FX-2000 Fire Alarm Panel
in a BB-5014 Backbox

Fire Phones



QBB-5001
Audio Panel

QBB-5001
Audio Panel

Voice Evacuation
Speaker Circuits



Up to 8 Audio Panels

VOICE EVACUATION SPEAKERS & FIREFIGHTER PHONES

FIREFIGHTER TELEPHONE HANDSETS

Mircom firefighter telephones are designed for maximum performance with Mircom QX-5000 and Flex-Net emergency zoned audio systems. These wired or addressable telephones feature heavy-duty construction, flush or surface mounting and the option for plug-in portable configurations.



SPP-104 SERIES CEILING SPEAKERS AND SPPS-104 SERIES SPEAKER STROBES

SPP-104 SPEAKERS



SPPS-104 SPEAKER STROBES



The ceiling speaker SPP-104 and speaker strobe SPPS-104 Series offer an audible/visual solution that delivers exceptional energy efficiency in a compact design.

Utilizing advanced LED technology, SPPS-104 Series provides a much lower current draw than xenon bulb technology. This in turn allows for more devices on a notification appliance circuit while reducing the number of external power supplies required.

QX-MINI

EMERGENCY COMMUNICATION SYSTEM



QX-mini is an emergency and fire alarm audio system designed to provide notification for small to medium applications.



Compact energy efficient audible/visual solution

- Easy to install & configure
- 30 Watt amplifier that can be expanded to 60 Watts (optional amplifier module)
- Notifications can be sent using:
 1. Stored digital recordings
 2. Master microphone
 3. Remote microphone
- Comes with standard pre-recorded messages
- Can store up to 12 minutes of digital recordings

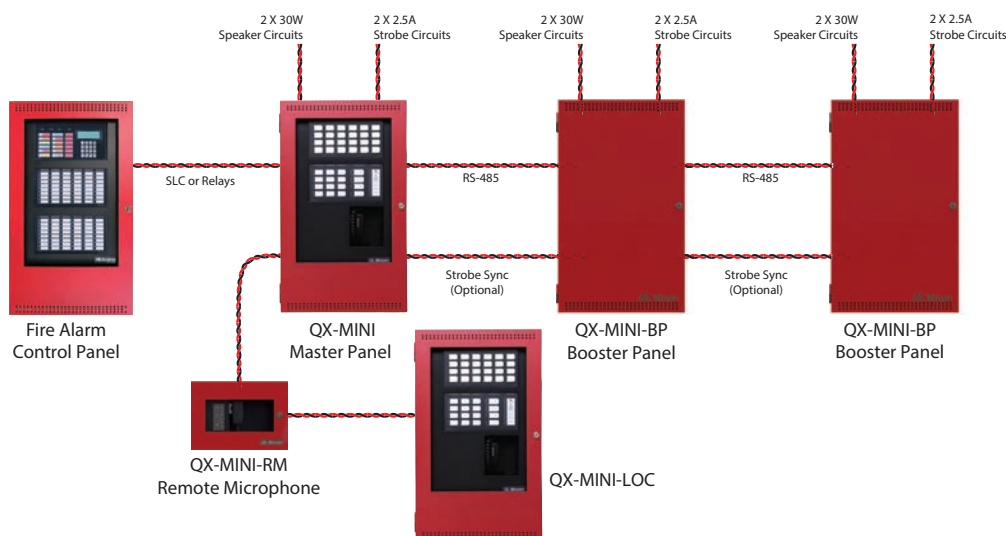
All the features of a premium audio system:

- SLC Control
- Up to 60 Watts of audio output
- Supports up to 6 panels
- Digital Messaging
- Expandable to 24 speaker outputs
- Capable of generating low tones to any speaker (520Hz)

Features:

- Supports up to 30 Watts of audio output and 5amps for NAC circuits expandable to 60W
- Integrates with compatible intelligent fire alarm control units or with any UL-listed fire alarm control unit through relay contacts
- Audio system supports up to 6 panels in total (one Master Panel with 5 Booster Panels) for a total of 360 Watts
- Equipped with standard digital messages
- Supports up to 6 remote microphones and/or Local Operating Consoles (LOC)
- Select from 14 digital messages at the control panel
- Custom messages using the software configurator
- Two output circuits (2.5A each) for horns and strobes. Expandable up to 12 circuits

NETWORK (WIRED COMMUNICATION) DIAGRAM

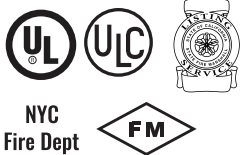


Example audio system with a FACP, a QX-MINI Master Panel, two Booster Panels, and two Remote Microphones.

CONVENTIONAL FIRE ALARM CONTROL UNITS

FA-1000 SERIES

The FA-1000 Series Fire Alarm Control Units are multi-zone units designed for maximum flexibility and easy installation and operation. Fully configurable from the front panel using push buttons and program switches, the FA-1000 Series enables the user to configure the system to meet their specific requirements.



- Modular design
- Each indicating circuit can be configured as silenceable or non-silenceable
- Each initiating circuit can be configured as Alarm, Supervisory, Waterflow or Trouble
- Two LEDs per initiating circuit; one for Trouble and one for Status
- RS-485 interface for remote multiplex annunciators
- Interface for remote trouble indicator
- Easy configuration via push buttons and program switches on the front panel
- Fully site or field programmable indicating circuits and auxiliary relays
- Slide-in labels for zone identification
- 6 or 12 Amp power supply
- Removable door for easy installation and servicing
- Removable terminal blocks for easy wiring and servicing
- Individual disconnect switches
- Configurable for two stage operation
- Eight to seventy two point system

CONVENTIONAL FIRE DEVICES



CONVENTIONAL DETECTORS

Mircom offers the widest range of conventional manual stations, heat detectors, smoke detectors, duct smoke detectors and beam smoke detectors to meet the needs of any commercial, institutional or residential facility. For unique and special risk applications Mircom also supports industrial, transport and military applications with specialty gas, flame and smoke detectors, including waterproof and explosion proof models.

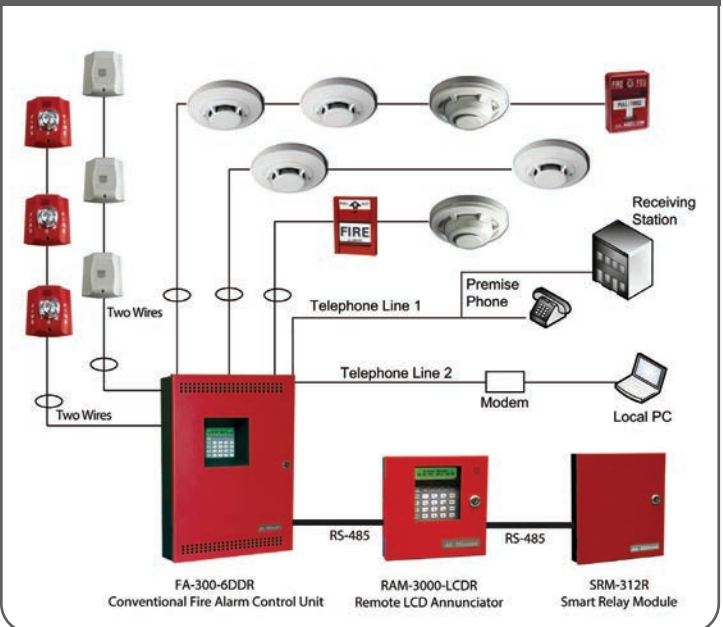
FA-300 SERIES

Designed for small to medium commercial, institutional and industrial occupancies, the FA-300 Series Fire Alarm Control Units are powerful enough to meet today's installation demands. The FA-300 Series are available in six and twelve zone models with a built-in UDACT/Digital Communicator on select models. The FA-300 Series are available in LED and LCD display configurations.



- Six and twelve zone configurations
- LED and/or LCD display configurations
- Powerful 5 Amp dedicated power supply
- Configurable UDACT/Digital Communicator (on select models)
- Optional city tie/polarity reversal module
- Optional modules for internal relay circuits
- Built-in sync protocols for major strobe manufacturers
- Remote upload/download capabilities (on models with UDACT)
- Individual circuit disconnect buttons
- Remote relay modules
- Remote programming capability
- Configurable for two stage operation on twelve zone models
- Two event history logs – 200 events per log

CONVENTIONAL FIRE ALARM SYSTEMS DIAGRAM



AGENT RELEASE CONTROL UNIT



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Fire Dept



FR-320 SERIES

Mircom's FR-320 is a dual releasing control panel that is field configurable for use on Deluge Sprinkler Systems, Pre-Action Sprinkler Systems and Agent Release Systems. The mode of operation is easily configured by selecting one of fourteen pre-configured modes of operation. The simple configuration process is done via the front panel and requires no laptop or complicated programming. The FR-320 is available with or without a built-in UDACT/Digital Communicator.



- Field configurable to operate with a Deluge Sprinkler System, a Pre-Action Sprinkler System and an Agent Release System
- Six class B (Style B) input circuits
- Four class B (Style Y) output circuits
- True class A circuit configuration
- Cross zone option
- Special releasing power supply and release activation considerations preventing false dumps
- Configurable to perform two hazard areas
- 5 Amp Power Supply
- 14 pre-configured modes that can be set for easy configuration
- Non-Verified Alarm, Non Latching Supervisory, Latching Supervisory or Agent Release/Water Flow depending on the Mode of Operation selected
- Configurable input circuits (2) for Manual Release Input, Abort Input or both
- Configurable output signals for steady tone (fixed) or escalating tone (programmable)

SIX ZONE FIRE ALARM UNIT



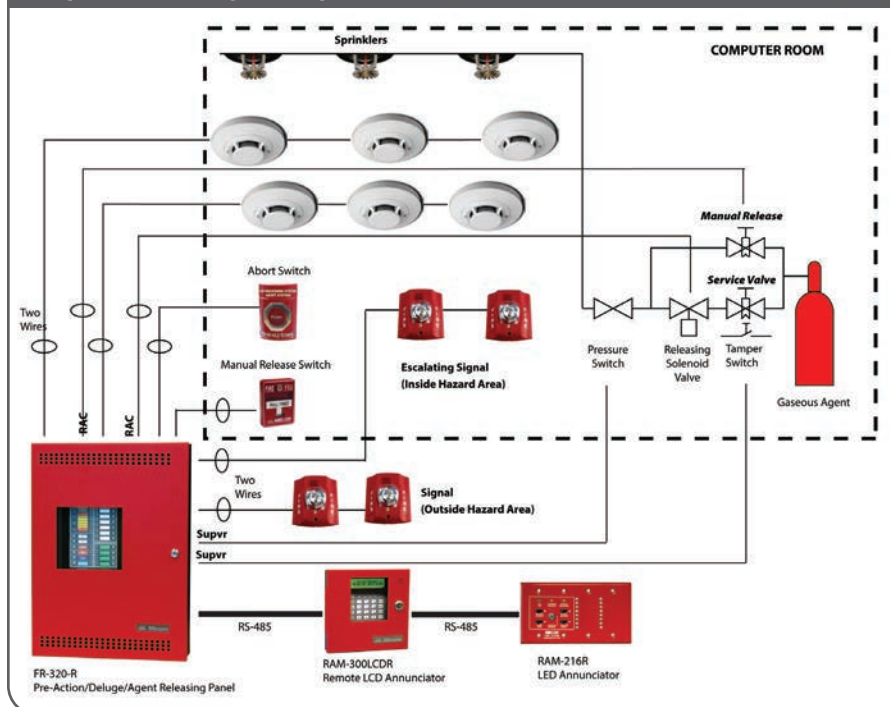
FA-100 SERIES

Mircom's FA-100 Series Fire Alarm Control Units are designed for fire alarm systems in small commercial, institutional and industrial occupancies. The FA-100 Series are available in six zone configurations and provide easy installation and reliable operation.

FA-106R

- Six Class 'B' Input circuits
- Two Class 'B' Output circuits (2.0Amps)
- Signal Silence
- Output for remote trouble indicator
- Alarm and trouble contacts

AGENT RELEASE DIAGRAM



FIELD CONFIGURABLE

Mircom brings industry-leading detection and precise control to small fire suppression applications, including food services, manufacturing, petrochemical and computer facilities. These panels are field configurable for use in deluge sprinkler, pre-action sprinkler and agent release systems without the need for a programming computer.

A COMPLETE SYSTEM SOLUTION FOR ANY PROJECT



Open Graphic Navigator is a UL/ULC approved centralized building management system that provides real-time local or remote monitoring.

Winner of the 2013 Edison Gold Medal Award in the Advanced Technologies – Smart Systems category for its innovative Open Graphic Navigator.

REAL-TIME EVENT NOTIFICATION WHEREVER YOU ARE

As a powerful integration tool, Open Graphic Navigator is easily customized to communicate a range of system events to different responding authorities or personnel, including fire, security, maintenance and service staff.

Open Graphic Navigator means you're connected 24/7.



BUILDING MANAGEMENT SYSTEM INTEGRATION

Mircom intelligent network systems can be integrated with compatible heating, cooling, ventilation, humidification, pressurization and energy management systems to offer superior fire protection and centralized control of multiple systems.



EMERGENCY EVENTS AND NOTIFICATIONS

Open Graphic Navigator provides real-time graphical notifications for fire and life safety systems. You see where the problem is, allowing you to respond quickly.

2D AND 3D VISUALIZATION

Open Graphic Navigator is the only graphics solution that provides both 2D and 3D troubleshooting. It is the perfect solution for large campuses or vertical properties where being able to guide emergency personnel to precise locations is crucial.

ENTERPRISE READY

Open Graphic Navigator has already been proven in complex business environments.

POWERFUL

Designed for the most demanding building standards in the world:

- Airports
- University Campuses
- Hospitals
- Government Buildings
- Commercial & Residential Towers

UNIFYING

Pulls together building systems into one powerful visualization:

- Fire
- Access Control
- Mircom's Smart Home Automation
- Emergency Phones

SIMPLE

Helps you quickly react to all events and emergency notifications:

- Choice of 2D & 3D visualizations
- Clean, easy-to-read System Status
- Lists all notifications via Event Log
- Custom event response message
- Configurable monitoring screens

APPLICATIONS

Mircom solutions are protecting lives and property in thousands of facilities worldwide.

- Commercial Towers
- Hospitals / Health Care Facilities
- Large Hotels
- University / Corporate Campuses
- Hospitality
- Large Shopping Malls
- Military Facilities
- High-rise residential
- Airports / Transportation
- Petrochemical Facilities
- Correctional Facilities
- Manufacturing Facilities
- Distribution Centers

For a complete list of our project portfolio, please visit our web site.



Founded in 1991, Mircom is a global designer, manufacturer and distributor of Intelligent Building Solutions. Reaching customers in over 100 countries worldwide, Mircom's portfolio includes: fire detection & alarm, communications & security, mass notification, building automation & smart technologies. Mircom's vision is to make buildings worldwide safer, smarter, and more livable.

Our global network of dedicated Sales and Service Offices, known as Mircom Engineered Systems, allows us to be a full solution provider. Through Mircom ES, we're able to provide and fully service our line-up of innovative and advanced solutions which are scalable to satisfy diverse user demands, from small & mid-size buildings to the world's most complex applications.

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