FleXNet™

The Most Versatile & Powerful Systems in the Industry

FleX-Net is a 'next generation' modular network system that is designed for the most demanding fire protection and emergency communications applications. FleX-Net introduces an impressive new range of system configurations, including a wide array of cabinets and sizes for control and annunciation requirements.

Applications

Complete Building System Integration

FleX-Net not only integrates all sub-systems, including fire detection & alarm, audio/voice evacuation and HVAC/damper control, it is also designed with built-in BACnet support for seamless integration with Building Management Systems (BMS). FleX-Net eliminates the need for expensive adder modules, required by other systems, and supports both digital and analog input/output devices.

FleX-Net is built to meet the latest building code requirements and offers an extensive range of panels, modules and devices for any upgrade or new construction project.

- Commercial Towers
- Hospitals
- University/Corporate Campuses
- Large Hotels
- Large Shopping Malls
- Military Facilities
- High-Rise Residential
- Transportation
- Correctional Facilities
- Manufacturing Facilities
- Distribution Centers

Enhanced Intelligent Network Monitoring & Control

Did you know...
Mircom has their own UL/ULC lab?

Unparalleled Modular System Design

FleX-Net's modular design provides almost limitless freedom to configure local, group and global control and annunciation where it is needed – including the ability to configure up to 7 LCD display/control chassis in a single node.

FleX-Net's unique system architecture provides market-leading performance and economy in the widest range of different system configurations:

- Stand alone addressable fire detection system
- Stand alone addressable fire detection and audio system
- Network audio system
- Network fire detection and audio system
- Advanced Protocol
- One-man and Assisted Walk test
- Digital Audio and Telephone bus over shared network cable
- Job File Management system capable of storing up to 3 separate configuration files
- Single point software & configuration network broadcast capability with zero life safety down time

Designed to Meet the Latest Codes and Standards

FleX-Net complies with the latest fire codes and standards, for control units (listed with UL 864, 9th Edition and ULC S527) and installation (NFPA, ULC S524). FM certified.

FX-2003-12NXTDS in a BBX-1024XTR enclosure (with optional DSPL-420-16TZDS Main Display module)

Clear Annunciation Graphic Monitoring & Control

In addition to the widest selection of LED and LCD annunciators, FleX-Net is also supported by Open Graphic Navigator, an advanced 3D graphic software system that takes system monitoring and emergency response to a whole new level.

Enhanced Life and Property Protection

- Complete flexibility to display custom floor plans and graphic symbols
- Custom event messaging

Secure System Configuration/Maintenance

- 3D floor plan graphic user interface
- Import system configuration files without taking system off-line
- Easy device symbol placement on floor plans

Advanced Monitoring and Control

- Real time annunciation of system status
- Annunciation of up to 1000 simultaneous system events
- Extensive event logging with custom reporting

Custom Graphics

- Support for .png or .svg floor plan files
- Select preconfigured or import custom symbols
- Point-and-Click device symbol placement
- Custom event response messages

Intuitive User Interface

- Color-coded event queues
- Clean, easy-to-read system status widget
- Easy to navigate facility using building and floor slider widgets
- Detailed (vector based) 3D building graphics

Mass Notification: Dynamic & Broad Communications

Meeting Emerging New Codes & Standards

Mircom's FleX-Net Mass Notification System (MNS) is designed to support the newest industry requirements for mass notification. This includes the ability for responding authorities to override fire detection notifications, issue external voice announcements, and simultaneously distribute different emergency messages on any geographic scale required.

The FleX-Net Mass Notification System (MNS) is listed to UL2572, and meets the NFPA 72-2010, and UFC/DOD standards for emergency communications systems. FM certified.

Powerful Emergency Communications

The FleX-Net MNS system employs the industry's most advanced hardware and software design to provide audible and visual notification, live voice instructions and Internet based text messaging. FleX-Net MNS is easily integrated with other public safety systems for emergency communications to wide area networks.

Audio/MNS Features:

- Up to 63 system nodes with over 50,000 watts of power
- Storage & activation of pre-recorded intelligible voice messages
- Auxiliary inputs for general paging, background music (where permitted*), or other non-emergency functions
- One-Way and Two-Way EVACS capability
- Automatic response to MNS inputs
- Synchronized evacuation zone signaling
- Voice message priority according to risk analysis and emergency response plan
- Visual notification and strobes appliance support
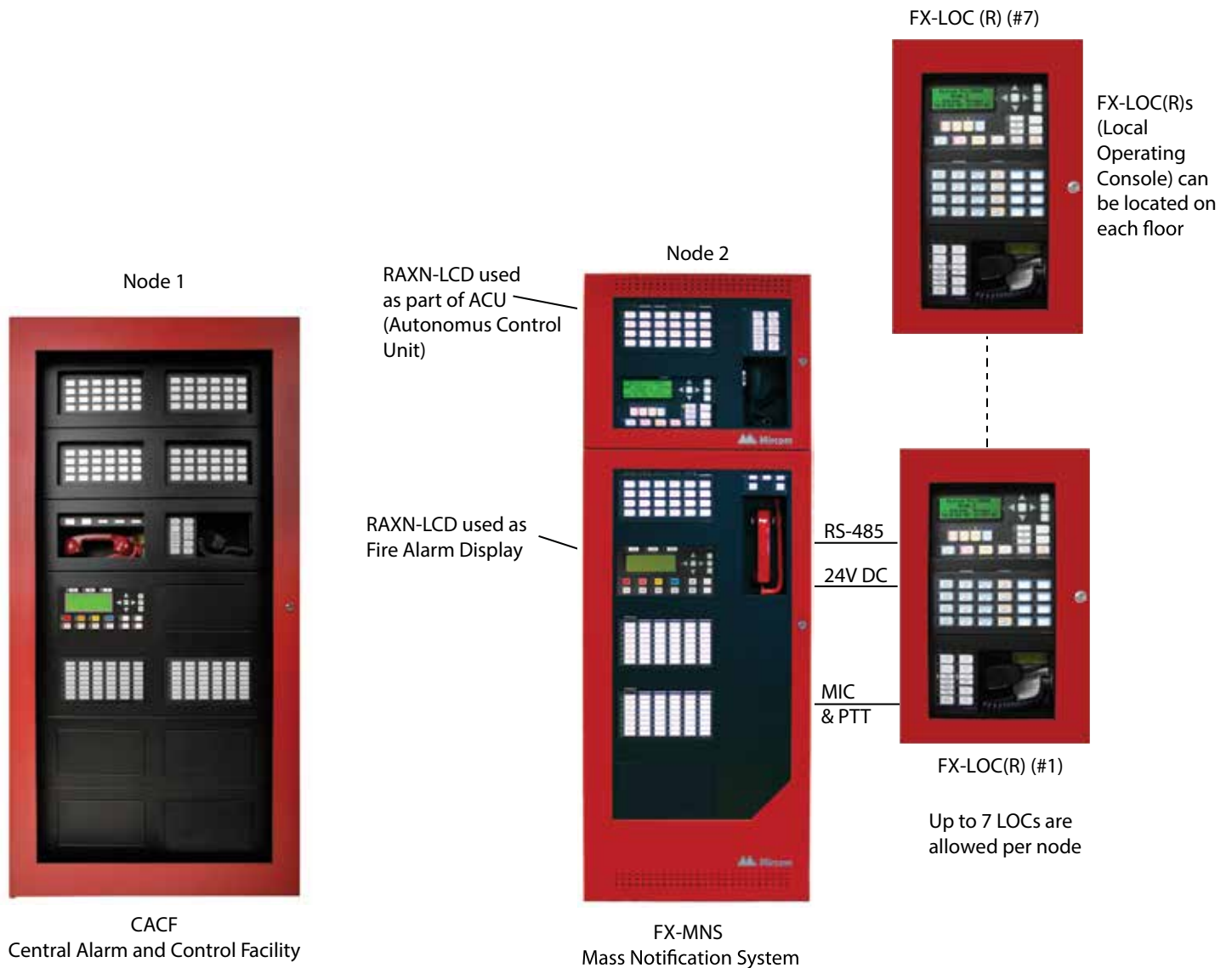- Public Address/Voice Address (PAVA) system

* Not permitted in Canada

FleX-Net Mass Notification Systems – Autonomous Control Unit (ACU) and Local Operating Console (LOC).

Mass Notification: System Configuration

The advanced Flex-Net network supports tower, campus or a combination of wiring configurations within the network, with complete peer-to-peer system integration.

FX-LOC (R) (#7)

FX-LOC(R)s (Local Operating Console) can be located on each floor

Node 2

Node 1

RAXN-LCD used as part of ACU (Autonomus Control Unit)

RAXN-LCD used as Fire Alarm Display

RS-485

24V DC

MIC & PTT

FX-LOC(R) (#1)

Up to 7 LOCs are allowed per node

CACF
Central Alarm and Control Facility

FX-MNS
Mass Notification System

Superior Performance For All Stakeholders – Today & Tomorrow

The Mircom FleX-Net system with Mass Notification functionality was carefully designed with the specialized needs of five key stakeholder groups in mind:

Building Staff & Fire Department Operators

Simplicity Easy to use, intuitive to operate

- Advanced control, including 'Warden Page' that integrates remote firefighter phones with audio/evacuation speakers network wide
- Plain language' XML based system reports
- Firmware upgradeable to ensure that the system is always up-to-date
- Equipped with system diagnostic tools to assist service staff

Intelligibility Clear, easy-to-understand instructions, pre-recorded or in real time.

- True multi-channel audio allows each node to support up to three unique alarm and alert tones
- Multiple displays in every MNS cabinet for distinguishing between Fire Detection and Mass Notification Events
- Clear and easy to understand text or graphic display of system events

Owners & Property Managers

Expandability Modular design enables you to grow your network in size and/or functionality.

- Up to 63 nodes with a capacity for over 5,000 I/O points per node, supporting over 250,000 points on a single network
- Support for multi and single mode fiber
- Advanced Protocol (AP) support for increased point count (159 Sensors & 159 Modules per SLC) - Available in Version 12.1 or greater"

Affordability FleX-Net offers the ability to combine Fire Detection and Mass Notification functionality to realize cost savings.

- Up to 7 display and control chassis per node, including local, group or global control
- Designed to support both conventional and intelligent detection for retrofit applications
- Unique system architecture provides additional cost savings system cost

Accessibility FleX-Net is supported abroad by a world-wide network of Authorized Distributors that offer the best competitive value in the industry.

- Factory-trained and accredited installation and service technicians
- Local sales, service and repair parts centers ensure the best support for your system

Engineering & Fire Consultants

Survivability Network redundancy – no single point of failure.

- True 'Peer to Peer' network configuration ensures survivability of the system
- Proven ARCNET™ communications protocol
- Up to 15 coordinated Digital Signal Processors per node
- Synchronized audio signaling across nodes allows multiple nodes to control common areas

Flexibility Intelligent network with seamless integration with Building Management Systems.

- Sophisticated Boolean logic with built-in, configurable timers with interval and scheduling to support complex smoke control functions
- Support of hardwire circuits to uniquely support retrofit applications
- Fully digital system network utilizing 1 twisted pair conductors or fiber optic cable for both control and audio
- New Local Operating Console (LOC) supports fully integrated paging and emergency audio and firefighter telephones
- Annunciators do not decrease node capacity

Versatility Supports a wide array of signaling and detection system modules.

- Offers a wide array of control and annunciation modules
- Advanced device support including laser based smoke detection, multi-criteria sensors, variable analog input modules and monitoring of gas and environmental sensors
- Digitized voice messages utilizing custom .wav file format
- AP Benefits: Speed, More Devices, Mixed CLIP/AP on single SLC

Dealers & Distributors

Continuity The Mircom Group of Companies is North America's largest independent fire solutions provider.

- Over 25 years of experience in providing new innovation and value in fire detection
- Systems proven through an extensive portfolio of projects in over 100 countries around the world
- Regional offices in Canada, USA, India and UAE provide support throughout all phases of the project

Reliability Manufactured in North America, Mircom products have among the lowest warranty claims in the industry

- FleX-Net systems are built using FX-2000 system components, proven in over a thousand installations, worldwide
- MGC™ has built its reputation on exceptional service, from initial design, to trouble-free installation, and after-sale technical support

On-site Maintenance Staff & Technicians

Serviceability Intuitive to install, program, and service; Backed-up with exceptional technical support.

- 'State of the Art' system software stores up to 3 configurations at one time, simplifying loading and program testing
- Service technicians have the ability to load software from one node to the entire network without taking any panel off-line
- Expanded system event reporting from a large front panel LCD display eliminates the need for a service computer
- Ethernet port provides web server system access for both local and remote reporting and diagnostics
- No additional hardware required

System Components

Fire Detection and Audio

Powerful intelligent networkable fire alarm solution designed with flexibility to meet virtually any application of detection, control, notification and emergency communications, and will fit into most spaces with any of our compatible enclosures.

BBX-FXMNSR

QBB-5001R

FX-LOCR

MNS Command Center and Audio Network Node

Expandable to 21 Intelligent Signaling Line Circuits (SLC) with paging, telephone and allows for up to 180 watts per panel.

Audio Expansion Panel

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

Local Operating Console

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

Fire Detection & Alarm Panels

Designed for peer-to-peer network communications, the various FleX-Net network panels allow for a maximum of 63 nodes, while providing reliability, flexibility and expandability.

UB-1024DS with a DOX-1024DSR

BBX-1024XTR

BB-5008 with a DOX-5008MR

Compact Network Panel

Up to 9 Intelligent Signaling Line Circuits (SLC) with up to 3 expansion modules

Extended Compact Network Panel

Expandable to 21 Intelligent Signaling Line Circuits (SLC) with up to 9 expansion modules, available in a variety of enclosures

Mid-Size Network Panel

Expandable to 29 Intelligent Signaling Line Circuits (SLC) with up to 17 expansion modules

System modules

The FleX-Net intelligent network system has the most extensive range of system modules, detection devices and signaling appliances available. More than an advanced network system, FleX-Net delivers a complete project solution with the support of over one hundred advanced, proven and affordable Mircom fire detection modules.

INX-10A

Auxiliary/Accessories

Including system accessory modules, power supplies, batteries, line modules, digital communicators, devices and device accessories

Signaling

A wide selection of indoor and outdoor speakers and speaker/strobes to supply the best notification and evacuation for any application

Detection

Advanced smoke, heat and multi-technology sensors in standard and specialty detector configurations

Advanced Multi-Criteria Detection

This addressable detector provides fire and carbon monoxide (CO) detection. Compatible with addressable sounder bases for Temp-3, Temp-4, and low frequency (520Hz) signaling

Annunciators

The FleX-Net network annunciators connect to any node and can annunciate the full network system or selected network nodes.

BB-1003DR

OPEN GRAPHIC™ NAVIGATOR

Intelligent LCD Network Annunciator

Supports several network annunciators that provide the same functions as the main display on the fire alarm control panel.

Open Graphic Navigator Software

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

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Mircom

Safer • Smarter • More Livable Buildings

About the Mircom®

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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Mircom®

OPEN GRAPHIC™ NAVIGATOR

POWERFUL.
FLEXIBLE.
SIMPLE.

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

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.

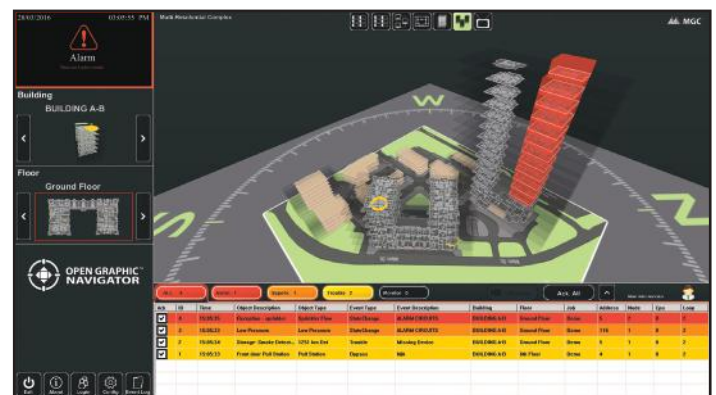Open Graphic Navigator means you're connected 24/7.

UL LISTED   FM APPROVED

OPEN GRAPHIC™ NAVIGATOR

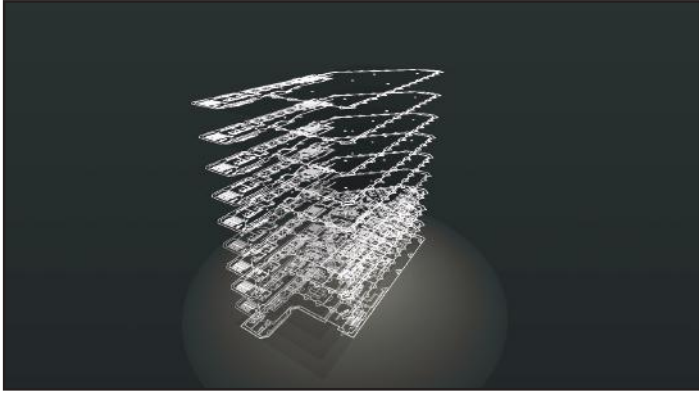

EMERGENCY EVENTS AND NOTIFICATIONS

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.
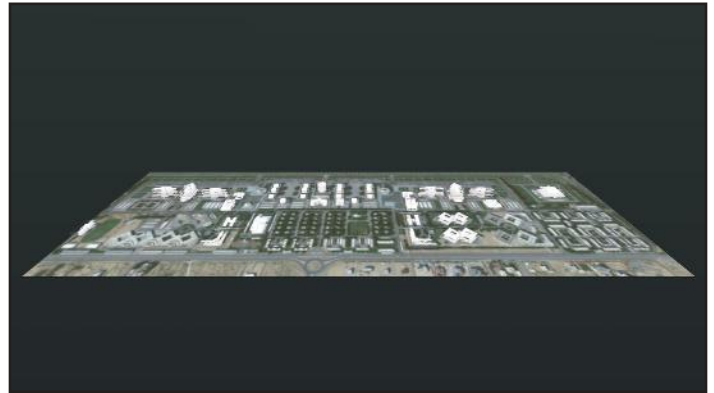

POWERFUL

Designed for the most demanding building standards in the world:

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

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.
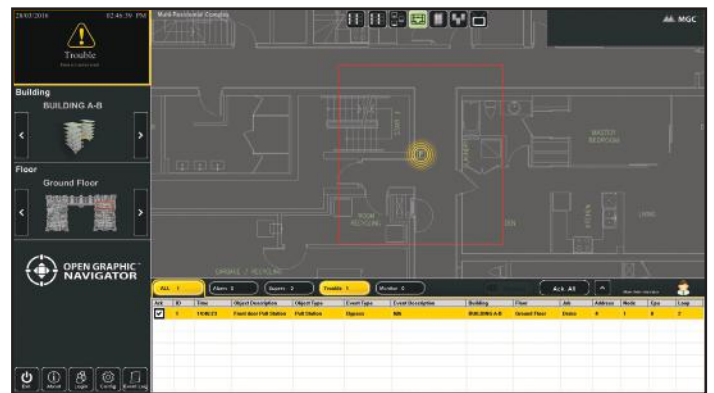
ENTERPRISE READY

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

UNIFYING

Pulls together building systems into one powerful visualization:

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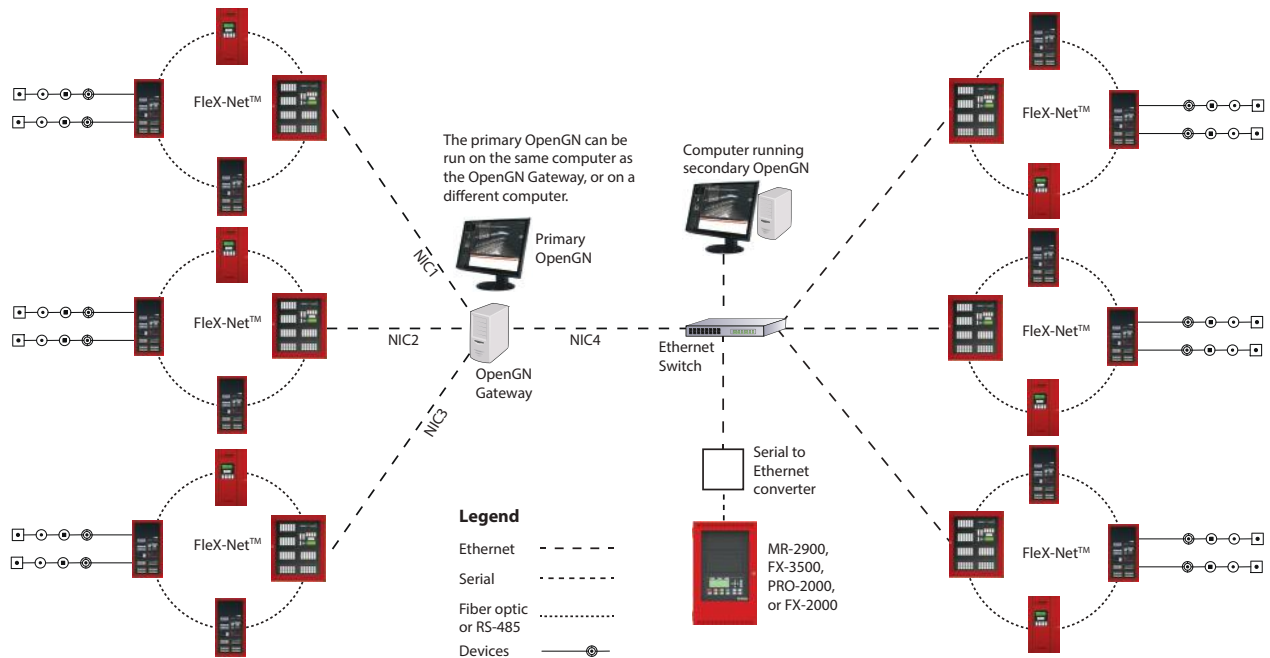- Mircom's Smart Home Automation
- Emergency Phones

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

Mircom makes buildings safer, smarter, and more livable. OpenGN's centralized and integrated graphical interface between operators and monitored buildings allows operators to monitor remote sites from multiple workstations

The primary OpenGN can be run on the same computer as the OpenGN Gateway, or on a different computer.

Primary OpenGN

Computer running secondary OpenGN

NIC1

NIC2   NIC4

NIC3

OpenGN Gateway

Ethernet Switch

Serial to Ethernet converter

MR-2900, FX-3500, PRO-2000, or FX-2000

FleX-Net™

Legend

Ethernet	– – – –
Serial	· · · · · ·
Fiber optic or RS-485	··············
Devices	——⊙—

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About the Mircom®

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ISO 9001:2015
CERTIFICATION
™
Intertek

Mircom®

COMPLETE FIRE DETECTION
AND NOTIFICATION SOLUTIONS

INTELLIGENT FIRE ALARM & AUDIO NETWORK SOLUTION

THE MOST VERSATILE AND POWERFUL SYSTEMS IN THE INDUSTRY.
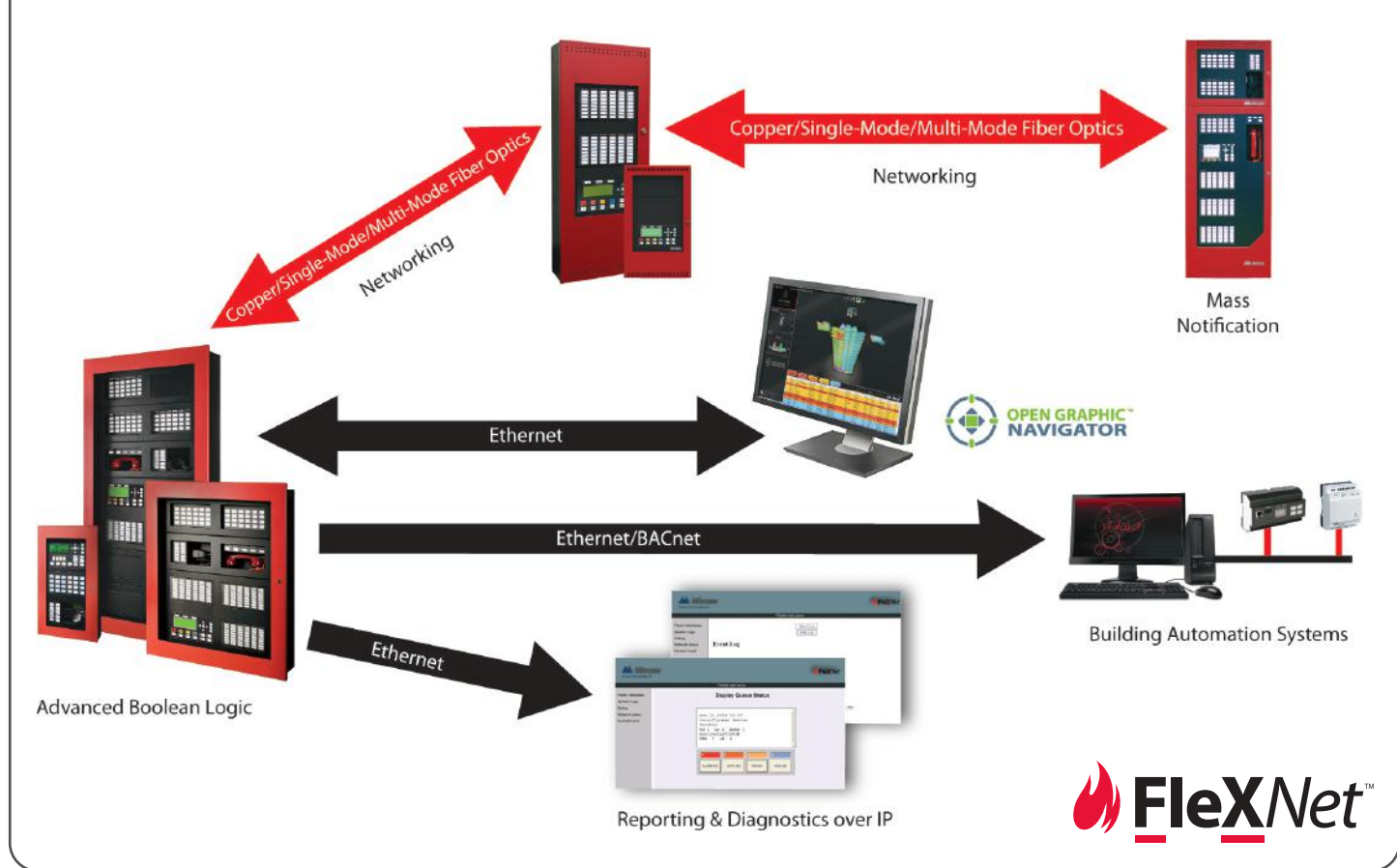
Mircom's FleX-Net Series is a powerful intelligent networkable fire alarm solution designed for medium to large-scale facilities. FleX-Net offers system designers many levels of flexibility to specify the ideal application of detection, control, notification and emergency communications. Features such 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.

With the addition of the Advance Protocol (AP), Fire/CO detection and 520 Hz support on both the addressable loop and through the audio/voice evacuation, Mircom's FleX-Net is poised to take you even further into the future with expanded capabilities.

- Advanced Protocol (AP)
- 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

2

FR-320NETK
INTELLIGENT FIRE ALARM & EMERGENCY COMMUNICATIONS NETWORK WITH RELEASING

- Adds releasing capability to Mircom's FleX-Net system based upon FR-320 Releasing panel
- Permits pre-release, abort, manual release, and reset control
- Built-in Addressable loop which supports Classic Loop Interface Protocol (CLIP) and Advanced Protocol (AP) addressable devices
- Each SLC in capable of supporting 99 CLIP/159 AP Analog Sensors and 99 CLIP/159 AP Addressable Modules which can be wired in Style 6 or 7 (Class A) or Style 4 (Class B). Mixed loop can have up to 99 CLIP sensors and 99 CLIP modules but balance must be AP
- Base system is equipped with one Intelligent Signaling Line Circuit (SLC/CDL). Expandable to 21 SLCs

- Tamper resistant enclosures
- Password protected features for enhanced access control
- Local and remote placement of controls and indicators
- Visible notification and strobes support
- Large LCD displays
- Building Management System Interface (BMSI)
- Fire Alarm Control Panel Interface (FACI)
- Four Style Z/Y (Class A/B) Notification Appliance Circuits rated at 1.7 Amps each
- Built-in Ethernet port
- Remote diagnostics via a Built-in web server
- Up to 63 nodes

COMPACT NETWORK PANEL

Up to 9 Intelligent Signaling Line Circuits (SLC) with up to 3 expansion modules

EXTENDED COMPACT NETWORK PANEL

Expandable to 21 Intelligent Signaling Line Circuits (SLC) with up to 9 expansion modules, available in a variety of enclosures.

MID-SIZE NETWORK PANEL

Expandable to 29 Intelligent Signaling Line Circuits (SLC) with up to 17 expansion modules.

Additional enclosures sizes available.

MNS COMMAND CENTER AND AUDIO NETWORK NODE

Expandable to 21 Intelligent Signaling Line Circuits (SLC) with paging, telephone and allows for up to 180 watts per panel.

AUDIO EXPANSION PANEL

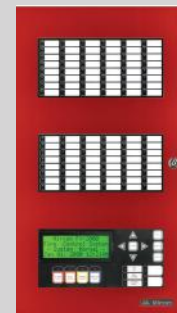Provides up to three audio expansion panels for an additional 1,080 watts of audio per node

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.

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-coloured LEDs

FAN DAMPER CONTROL MODULES

FDX-008
- Individual programmed circuits for fan or damper control
- Three position selector switch for Off, On and Auto
- Supervised for operation
- UUKL listed for smoke control
- Graphic Driver modules available

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

FX-350 SERIES INTELLIGENT FIRE ALARM CONTROL UNITS

The FX-350 Series Intelligent Fire Alarm Control Panels support 60, 126 or 378 addressable points. Select models are available with a built-in UDACT/Digital Communicator. Easy to install and operate, the FX-350 Series is ideal for small to medium commercial, institutional and industrial occupancies.

NYC Fire Dept.

- 2 line, 20 character back-lit LCD display
- Powerful 5 Amp dedicated power supply
- Four class B (Style Y) indicating circuits
- Select models include a 32 zone LED annunciator that can be expanded to 64 zones (32 alarm and trouble LEDS)
- Two event history logs – 200 events per log
- Configurable for two stage operation
- Configurable via the front panel, PC configurator, or remote dial up through the built-in modem (UDACT models)
- Software bypass groups
- Supports Photoelectric Sensors, Variable Heat Sensors and Multi–Sensor (Heat/Photo)
- Models available with an integrated UDACT/Digital Communicator

- Digital Communicator can be configured for DACT or UDACT mode of operation
- Built-in sync protocols for the following strobe manufacturers: Mircom, Amseco, System Sensor, Gentex, Faraday and Wheelock
- Relay contacts for Common Alarm, Auxiliary/Alarm (Disconnectable), Common Supervisory and Common Trouble
- Configurable Signal Silence Inhibit, Auto Signal Silence, Two Stage Operation and One-man walk test
- RS-485 Interface for Remote LED and LCD Annunciators
- Optional modules for additional internal relay circuits and City Tie/Polarity Reversal
- Optional trim ring for semi-flush mounting

> FX and FA style fire alarm panels have three interchangeable means of being field programmed. 1) is from the front panel, 2) is from a local configurator tied to the panel and 3) is remotely over a telephone line. Plus all three are interchangeable in the sense that you can make a change on the front panel, upload to your local computer and make changes at home on that computer and send to the panel from home.

INTELLIGENT FIRE ALARM DEVICES

INTELLIGENT POWER SUPPLIES

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-350 SERIES INTELLIGENT DEVICES

Mircom offers a complete line of FX-350 addressable devices for any application. Analog addressable sensors include photoelectric, thermal and multi-criteria sensors. In addition, there are single and dual-action pull stations and addressable modules including monitor, output, relay and isolator models.

Intelligent NAC expander/power supplies are compatible with the FX-2000, FX-3500 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.

5

FX-3500 SERIES
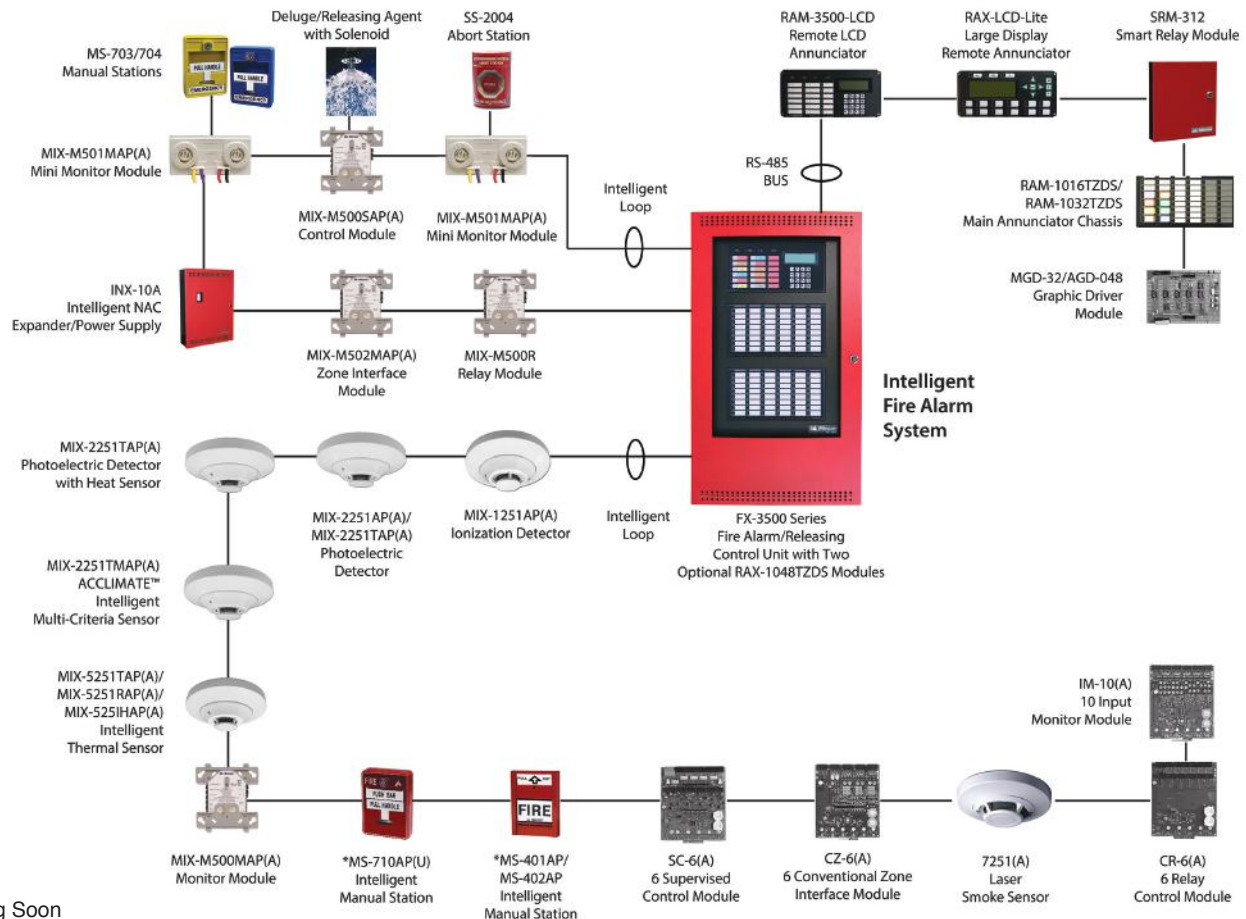## INTELLIGENT FIRE ALARM CONTROL UNITS

Mircom's FX-3500 Series systems are powerful Intelligent Fire/Agent Release Control Units that are UL/ULC listed for fire alarm services, including releasing service. The FX-3500 Series provides up to three intelligent Data Communication Links (DCLs) / Signaling Line Circuits (SLCs) that support a new AP protocol, which is faster and has capacity for up to 954 intelligent devices. In addition, the FX-3500 Series has backward compatibility support for CLIP devices. The FX-3500 Series systems are recommended for both new and retrofit fire detection and/or special-hazard/critical-infrastructure suppression/special agent applications. Capable of releasing up to six discrete physical hazard zones, the FX-3500 offers exceptional value for complex installations. Programming versatility makes the FX-3500 Series the ideal choice for dependable fire detection, signaling and protection in industrial, commercial and institutional buildings.

- New fast AP protocol, extending number of devices on the loops, up to 954 (318 X 3)
- Panel supports both AP and CLIP protocol
- Use USB security key
- Utilizes the universal box
- Utilizing cross-zoning or counting detection

- Has a 4X20 line display
- Flush or Surface mountable with no additional hardware required

Available on FX-3500-RCU only

- Intelligent Addressable Fire Alarm with Releasing Control
- Six dedicated hazard zones

NYC
Fire Dept.

FX-3500 SERIES SYSTEM DIAGRAM

*Coming Soon

FX-3318 INTELLIGENT/ADDRESSABLE FIRE ALARM PANEL

Mircom's FX-3318 Addressable Fire Alarm Control Panel is UL 864 REV 9, COA and CSFM listed.

For those jobs that require a solution that is low cost for small to medium facilities, the NEW FX-3318 single loop intelligent panel is the solution.

It is cost effective and easy to install, program and use. The FX-3318 has uncompromised features and has the look and feel of larger Mircom panels as Menu's follow standard Mircom panels to reduce learning. The FX-3318 is a great alternative to replace conventional systems. The built-in trim ring accommodates both retrofits and new installs reducing time with semi-flush or surface mountable options.

The FX-3318 provides 1 intelligent signaling Line Circuit (SLC) that supports the Advanced Communication Protocol (AP) protocol. AP devices use a high speed communication protocol that greatly increases the speed of communication between intelligent devices. In addition, the AP protocol allows for greater system capacity with support for up to 318 devices. The FX-3318 has backwards capability for legacy CLIP devices supporting up to 198 devices..
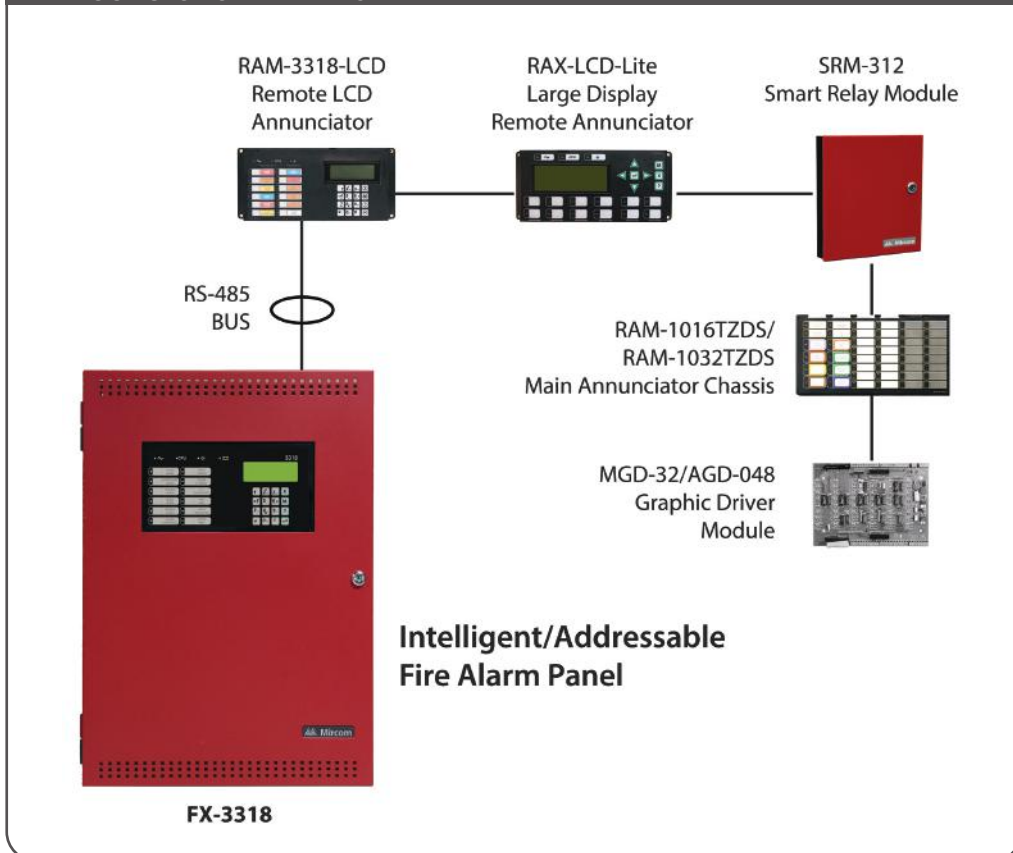
The FX-3318 supports Class B (Style 4), Class A (Style 6), Class X (Style 7) NAC Circuits (max 1.5 Amps each – 5 Amps total).

- Supports both AP and CLIP protocols
- Dedicated common alarm, supervisory, trouble and auxiliary alarm relays
- 4x20 Backlit LCD Display
- Flush or Surface Mountable with no additional hardware
- PAS (Positive Alarm sequence)
- Built in dialer
- Supports up to 7 annunciators with optional red, white or NEW stainless steel enclosures

Mircom's Advanced Protocol (AP) devices use a high speed communication protocol that greatly increases the speed of communication between the intelligent devices. Mircom's Advanced Protocol uses a superior group polling method as well as an interrupt feature that provide for a faster response to an alarm condition. In addition, the Advanced Protocol allows for greater system capacity with support for up to 318 devices per SLC circuit. The AP devices are backwards compatible to operate in CLIP mode for legacy system applications.

FX-3318 SYSTEM DIAGRAM

RAM-3318-LCD Remote LCD Annunciator

RAX-LCD-Lite Large Display Remote Annunciator

SRM-312 Smart Relay Module

RS-485 BUS

RAM-1016TZDS/ RAM-1032TZDS Main Annunciator Chassis

MGD-32/AGD-048 Graphic Driver Module

Intelligent/Addressable Fire Alarm Panel

FX-3318

LED HORNS & HORN STROBES

Mircom's Notification Appliances offer an audible/visual solution that delivers exceptional energy efficiency in a compact design.

Mircom 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 Mircom 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 wall or ceiling mount applications, Mircom's Notification Appliances comply with all agency requirements including the new 2016 edition of NFPA 72.

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

FLEXIBLE
- 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
  - o Standard or high candela options for Speaker Strobes
- Multiple field-selectable audible settings
  - o Temporal, Continuous, March Time and 20 BPM audible tones
  - o High and low volume settings
  - o 25/70 V speaker input options

LOW FREQUENCY DEVICES
- Mini Horns
- Wall Mount Horn Strobes

SAFE
- Device settings are located on the back of the unit to prevent tampering
- Compliance
  - o UL 1971, UL 1638, UL 464, and UL 1480
  - o ULC-S525, ULC-S526, and ULC S 541
  - 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)
- 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
  - o Retrofit kit for Speaker Strobes for limited ceiling back box space

Wall/Ceiling Mount Horns
FH-400-RR (red)
FH-400-WW (white)

Wall Mount Strobes
FS-400-RR (red)
FS-400-WW (white)

Wall Mount Horn Strobes
FHS-400-RR (red)
FHS-400-WW (white)
FHSLF-400H-WW (red - low frequency)
FHSLF-400H-RR (white - low frequency)

Ceiling Mount Strobes
FS-400C-RR (red)
FS-400C-WW (white)

Ceiling Mount Horns Strobes
FHS-400C-RR (red)
FHS-400C-WW (white)

Wall Mount Mini Horns
MH-26 (red)
MH-26 (white)
MH-26LFR (red - low frequency)
MH-26LF (white - low frequency)

8

LED SPEAKERS & SPEAKER STROBES

COMING SOON

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

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

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

Mircom's Notification Appliances comply with all agency requirements including the new 2016 edition of NFPA 72.

Wall Mount Speakers
SPP-204-25R (red)
SPP-204-25 (white)
SPP-204-70R (red)
SPP-204-70 (white)

Low Profile Ceiling Mount Speakers
SPP-104-25R (red)
SPP-104-25 (white)
SPP-104-70R (red)
SPP-104-70R (white)

Ceiling Mount Speaker Retrofit Kit
SPKC-W

Wall Mount Speaker Strobes
SPPS-204-25R (red)
SPPS-204-25 (white)
SPPS-204-70R (red)
SPPS-204-70 (white)
SPPS-204-70HR (high candela red)
SPPS-204-70H (high candela white)

Low Profile Ceiling Mount Speakers Strobes
SPPS-104-25R (red)
SPPS-104-25 (white)
SPPS-104-25HR (high candela red)
SPPS-104-25H (high candela white)
SPPS-104-70R (red)
SPPS-104-70R (white)
SPPS-104-70HR (high candela red)
SPPS-104-70H (high candela white)

Ceiling Mount Speaker Strobes Retrofit Kit
SPKC-W

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.

SP-SERIES SPEAKERS

Mircom SP series speakers broadcast high quality tone signals and are ideal for voice notification in multi-unit residential, hospitality, shopping malls, sport facilities and other applications where attractive appearance and dependable performance are essential.

SP-SERIES SMART SPEAKERS

Mircom 4-inch SP 'Smart' Series speakers are designed for maximum performance with Mircom QX-5000 and Flex-Net emergency zoned audio systems and provide local speaker silencing and resound. Silencing can be done on the speaker baffle or via remote switch plates.

For Canadian market

VOICE EVACUATION SYSTEM

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

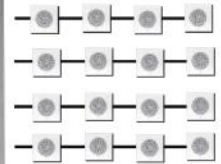FX-2000 Fire Alarm Panel in a BB-5014 Backbox

Fire Phones

QBB-5001 Audio Panel

QBB-5001 Audio Panel

Voice Evacuation Speaker Circuits

Up to 8 AudioPanels

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
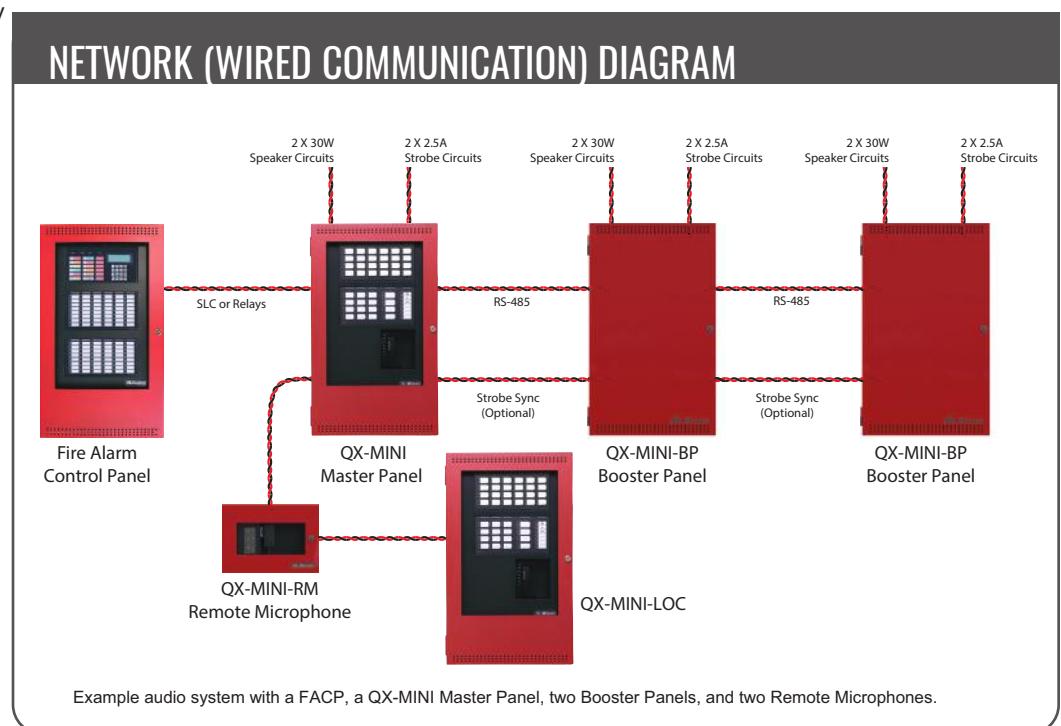• Can store up to 12 minutes of digital recordings

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
• UL, ULC and CSFM approved

NETWORK (WIRED COMMUNICATION) DIAGRAM

2 X 30W Speaker Circuits   2 X 2.5A Strobe Circuits   2 X 30W Speaker Circuits   2 X 2.5A Strobe Circuits   2 X 30W Speaker Circuits   2 X 2.5A Strobe Circuits

SLC or Relays   RS-485   RS-485

Strobe Sync (Optional)   Strobe Sync (Optional)

Fire Alarm Control Panel   QX-MINI Master Panel   QX-MINI-BP Booster Panel   QX-MINI-BP Booster Panel

QX-MINI-RM Remote Microphone   QX-MINI-LOC

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

THREE AND SIX ZONE FIRE ALARM UNITS

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 three and six zone configurations and provide easy installation and reliable operation.

FA-103
- Three Class 'B' Input circuits
- Two Class 'B' Output circuits (2.0Amps)
- Signal Silence
- Output for remote trouble indicator
- Alarm and trouble contacts
- White or Red exterior colours

FA-106
- Six Class 'B' Input circuits
- Two Class 'B' Output circuits (2.0Amps)
- Signal Silence
- Output for remote trouble indicator
- Alarm and trouble contacts
- White or Red exterior colours
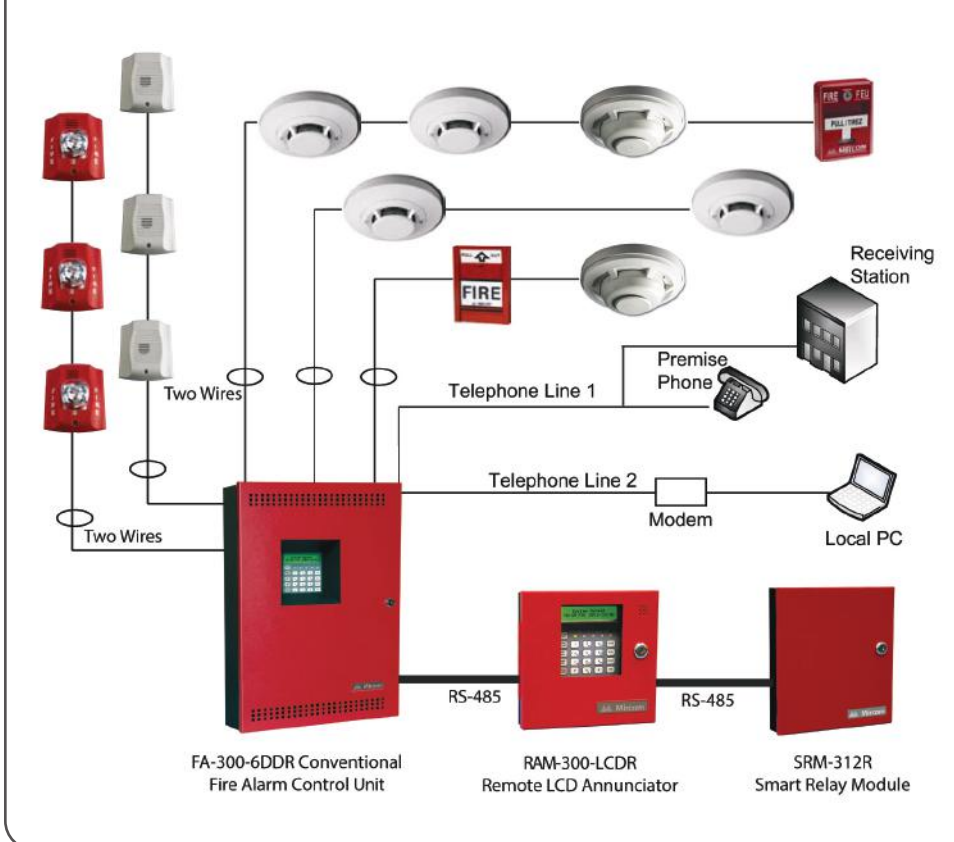
CONVENTIONAL FIRE ALARM CONTROL UNITS

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, eight 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, eight 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 eight and twelve zone models
- Two event history logs – 200 events per log

CONVENTIONAL FIRE ALARM SYSTEMS DIAGRAM

Two Wires
Two Wires
FIRE
FIRE
Receiving Station
Premise Phone
Telephone Line 1
Telephone Line 2
Modem
Local PC
RS-485
RS-485
FA-300-6DDR Conventional Fire Alarm Control Unit
RAM-300-LCDR Remote LCD Annunciator
SRM-312R Smart Relay Module

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.
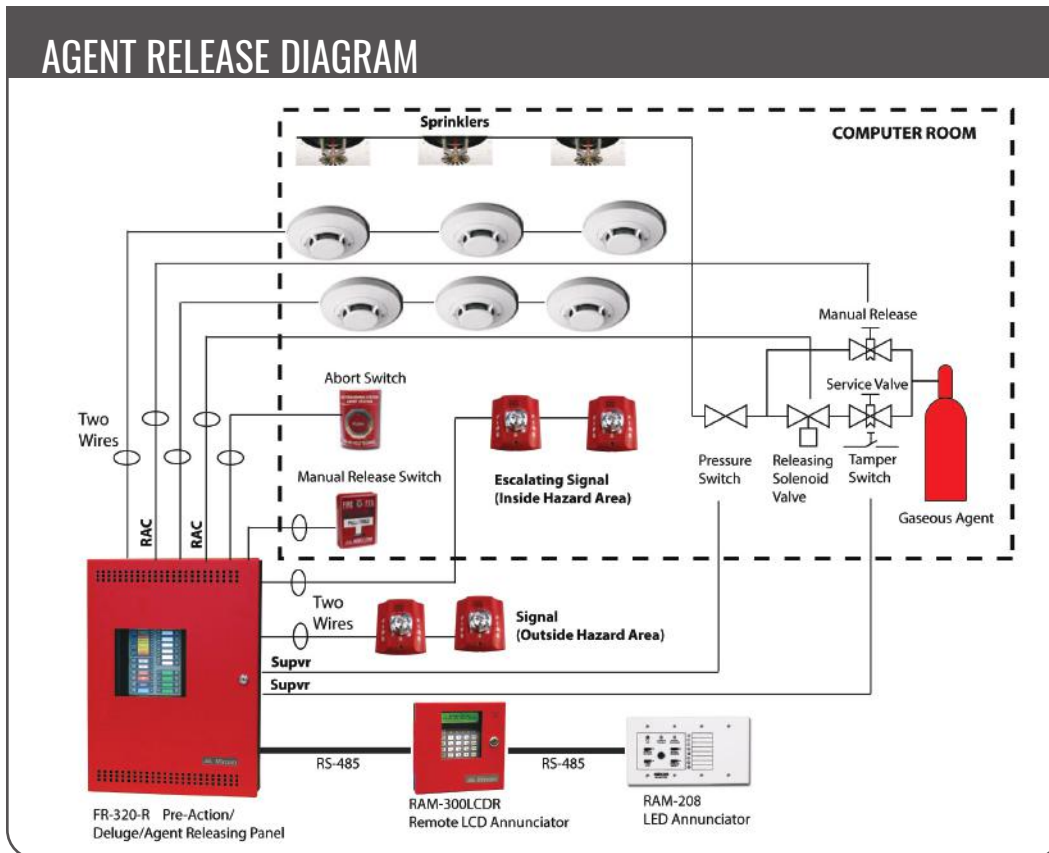
AGENT RELEASE CONTROL UNIT

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)

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

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.

![Mircom logo] **Mircom®**
Safer • Smarter • More Livable Buildings

About the Mircom®

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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