



Description

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.

| Cabinet Dimensions | |
|--|---|
| Dimensions of Enclosure (minus built in trim ring) | 14.5" W x 4.25" D x 21" H (36.83 cm x 10.79cm x 53.34cm) |
| Complete Dimensions of Enclosures | 16.7" W x 5.7" D x 23" H (42.42xm x 14.48 x 58.42cm) |

| Electrical Specifications | |
|---------------------------|--|
| Primary Input Power | 120VAC 60Hz / 240VAC 50Hz 1.81 Amp / 0.98 Amp (primary) |
| Battery Type | 24VDC Gel Cell / Sealed lead acid |



NYC
Fire Dept

Features

Mircom's FX-400 Addressable Fire Alarm Control Panel provides the following:

- Main Board, Power Supply and Backbox.
- One addressable (SLC) loop with a maximum of 240 MGC devices (MIX-4000 series) in total.
- Each SLC current capability is 200mA in standby and 400mA in alarm. SLC Maximum line resistance 40 Ohms and maximum line capacitance 0.47uF.
- Multit-zone fire alarm control panel.
- 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.
- Compatible with OpenGN 3.8 and higher. An external converter (ARW-VESP211-KIT) from RS-232 to Ethernet is needed to connect with OpenGN. The RS-232 side of the convertor will be connected at the printer port.
- Main Display with 4 x 20 LCD display.
- Class A, Class X or Class B analog loop(s).
- Four Power Limited Class B, Class A NAC circuits (max 1.5 Amps each - 5.0 Amps total).
- NAC circuits may be configured as silenceable signal, non-silenceable signal, silenceable strobes, non-silenceable strobes, or auxiliary power output. The audible signal may be Steady, Temporal Code, California Code, or March Time.
- Supports sync strobe protocols from major manufacturers.
- Software configuration.
- 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).
- Additional outputs include connections for a RTI remote trouble indicator, PR-300 Reverse Polarity Module, an RS- 485 bus for connection of up to seven RAX-LCD-LITEs, RAM-3318-LCDs, SRM-312s and RA-1000 Series annunciators.
- Auxiliary power is available in the form of 24V FWR unfiltered and unsupervised, 24VDC filtered and regulated, and resettable auxiliary power supply.
- Built-in Dialer Module.
- Activation of the sounder base is controlled solely by the head to which it is attached.

System Components



RAM-3318-LCD Remote Annunciator

The RAM-3318-LCD Remote Annunciator is used as a component of an FX-400 Fire Alarm System. It provides an exact mimic of the FX-400 display at a remote location. The display is four lines, 20 characters back-lit alphanumeric LCD. It displays information regarding the panel, its circuits, and devices. An on-screen cursor is controlled by the cursor buttons for menu selection and control. The RAM-3318-LCD occupies one display position in the BB-1000 enclosure.



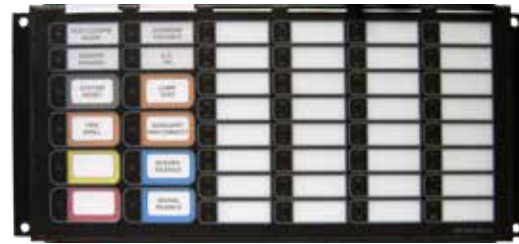
RAX-LCD-LITE Remote LCD Annunciator

The FX-400 also supports the RAX-LCD-LITE Remote LCD Annunciator. It is equipped with a large 4-line x 20-character back-lit alphanumeric LCD display that uses a simple menu system complete with a directional keypad and switches for Enter, Menu, Cancel and Info. The RAX-LCD-LITE occupies one display position in the BB-1000 enclosures.



RAM-1032TZDS-CC Conformal Coated Main Remote LED Annunciator

The RAM-1032TZDS-CC Conformal Coated Main Remote LED Annunciator provides common annunciator functions and 32 points of LED annunciation. The RAM-1032TZDS-CC has indicators for A.C. On, Common Trouble and Signal Silence and controls for System Reset, Lamp Test, Fire Drill, Buzzer Silence and Signal Silence. Each display point can be identified by the slide-in label that slides in beside the LED. The RAM-1032TZDS-CC occupies one display position in the BB-1001WP(R)A or BB-1002WP(R)A enclosures.



RAM-1032TZDS Main Remote LED Annunciator

The RAM-1032TZDS Main Remote LED Annunciator provides common annunciator functions and 32 points of LED annunciation. The RAM-1032TZDS has indicators for A.C. On, Common Trouble and Signal Silence and controls for System Reset, Lamp Test, Fire Drill, Buzzer Silence and Signal Silence. The RAM-1032TZDS occupies one display position in the BB-1000 enclosure.



RAX-1048TZDS-CC Conformal Coated Programmable LED Annunciator Module

The RAX-1048TZDS-CC Conformal Coated Programmable LED Annunciator Module provides 48 programmable bi-colored LEDs. The RAX-1048TZDS-CC connects to the main control unit or main annunciator module (RAM-1032TZDS) when mounted remotely. Each display point can be identified by the slide-in label that slides in besides the LED. The RAX-1048TZDS occupies one display position in the BB-1001WP(R)A or BB-1002WP(R)A Series enclosures.



RAX-1048TZDS Programmable LED Annunciator Module

The RAX-1048TZDS Programmable LED Annunciator Module provides 48 programmable bi-colored LEDs. The RAX-1048TZDS connects to the main control unit or main annunciator module (RAM-1032TZDS) when mounted remotely. Each display point can be identified by the slide-in label that slides in beside the LED. The RAX-1048TZDS occupies one display position in the BB-1000 Series enclosures.



AGD-048 Graphic Annunciator Adder Driver Board

The AGD-048 Adder Graphic Driver Module can be used with the MGD-32 Master Graphic Driver modules, or if located remotely it must be connected and mounted with the RAX-LCD Shared Display. The AGD-048 will support an additional 48 supervised outputs. As with the master modules, the AGD-048 will support both LEDs and incandescent lamps.



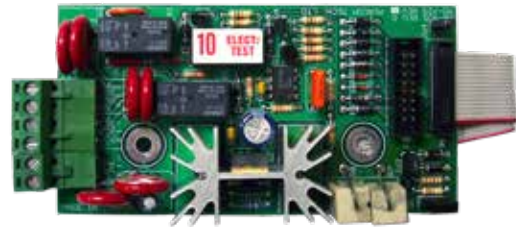
UIMA4 Interface for Configuring MGC Fire Panels

The UIMA4 is an interface for configuring FX-400. The UIMA4's ribbon cable can be disconnected and replaced – the replacement part number is RPL-WC-25022 (it comes with 3 replacement cables). The UIMA4 interface has 3 connectors: 9 pin male serial connector, USB B female connector, and 10 pin female connector.



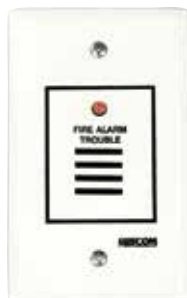
MGD-32 Master Graphic Driver Module

For use with FX-400 Fire Alarm Control Panels. The MGD-32 Master Graphic Driver Module provides common control inputs for the switches such as System Reset, Signal Silence, Auxiliary Disconnect, Fire Drill, Lamp Test and Acknowledge.



PR-300 Polarity Reversal/City Tie Module

The PR-300 provides outputs for city box and polarity reversal applications. As a city tie module, the PR300 provides an interface between the control panel indicating circuits and a master box. It provides off-premises signal transmission for systems that must comply with NFPA requirements for Auxiliary Protective Systems. As a polarity reversal module, the PR-300 provides an interface between the control panel and a reverse polarity receiver.



RTI-1 Trouble Remote Indicator

Mircom's Remote Trouble Indicator provides remote annunciation of fire alarm troubles. The RTI-1 mounts onto a standard single gang electrical box. The RTI-1 can be used with any of Mircom's fire alarm control panels.



MP-300 End of Line Plates

Mircom's MP-300 is a 3.9K End Of Line resistor for use with Mircom conventional panels and detection circuits.

Graphics Software



Open Graphic Navigator (OpenGN)

Open Graphic Navigator (OpenGN) is a centralized fire alarm management system that provides building or campus monitoring. As a powerful integration tool, OpenGN allows operators to monitor remote sites from multiple workstations located anywhere in the world. OpenGN displays monitored buildings and campuses in both 2D and 3D representations, and is highly customizable.

| Model | Description |
|----------------|---|
| OGN-FLSLIC-ONE | Single Fire Alarm Control Panel License Requires: OGN-KEY (sold separately) |
| OGN-FLSLIC-EXP | Fire Alarm Control Panel License for 2-9 Connections Requires: OGN-KEY(sold separately) |
| OGN-FLSLIC-STD | Fire Alarm Control Panel License for 10-99 Connections Requires: OGN-KEY (sold separately) |
| OGN-FLSLIC-ENT | Fire Alarm Control Panel License for 100+ Connections Requires: OGN-KEY (sold separately) |
| OGN-KEY | OGN License Key Stick |

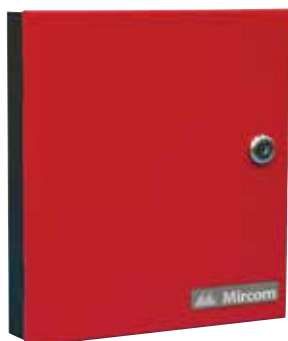


BB-1001WP(R)A Outdoor Weather Protected Enclosure

The BB-1001WP(R)A is a complete enclosure that comes with either a RED or WHITE door, a black back-box, two keys and a durable lock at the top of the door. The door comes hinged to the bottom side of the box for added weather protection. The box is capable of handling one RAM-1032TZDS-CC Main Annunciator Chassis which provides up to 32 points of annunciation. RAM-1032TZDS-CC is ordered separately conform with the UL, ULC installation requirements.

Note: there is no need for thermostat or heater. RAM-1032TZDS-CC must be ordered separately to match UL, ULC installation requirements.

| | |
|-------------------------------|--|
| Dimensions | 11-5/32" H x 12-15/16" W x 3-1/2" (283mm x 329mm x 89mm) |
| Rated for Outdoor Environment | +50°C to -40°C (-122°F to -40°F) |
| Wet Location | 95% R.H. @60°C |



SRM-312R Smart Relay Module with Red Enclosure

The SRM-312R provides twelve configurable relay circuits, rated @ 28 VDC, 1 amp (resistive). Each circuit can be configured as a Normally Open (N.O.) or Normally Closed (N.C.) contact. Each relay is equipped with an LED that is lit when the relay is energized. The relays can be configured as relay per zone (1 to 1), Common on Alarm, Common on Supervisory or programmable for a logical or adjacent zone configuration. An adjacent zone configuration will turn on an adjacent zone when the configured zone is active. A chaining configuration allows for multiple relays to turn on. The SRM-312R is DIP switch configurable and connects to the RS-485 bus. The SRM-312R come complete with a red enclosure and a CAT-30 lock and key.



BB-1002WP(R)A Outdoor Weather Protected Enclosure

The BB-1002WP(R)A is a complete enclosure that comes with either a RED or WHITE door, a black back-box, two keys and a durable lock at the top of the door. The door comes hinged to the bottom side of the box for added weather protection. The box is capable of handling one RAM-1032TZDS-CC Main Annunciator Chassis which provides up to 32 points of annunciation and one RAX1048TZDS-CC Adder Annunciator, which provides up to 48 points of annunciation. RAM-1032TZDS-CC and RAX1048TZDS-CC are ordered separately to match the UL, ULC installation requirements.

Note: there is no need for thermostat or heater. RAM-1032TZDS-CC and RAX-1048TZDS-CC must be ordered separately to match UL, ULC installation requirements.

| | |
|-------------------------------|---|
| Dimensions | 17-15/16" H x 12-15/16" W x 3-1/2" (456mm x 329mm x 89mm) |
| Rated for Outdoor Environment | +50°C to -40°C (-122°F to -40°F) |
| Wet Location | 95% R.H. @60°C |



BB-1001 / 2 / 3 / 8 / 12 Remote Annunciator Enclosures

The BB-1000 Series comes complete with a backbox, door and hinge. The enclosures doors come with Lexan windows, two keys and a durable lock. The enclosures can handle the RAM-1032TZDS, RAM-3318-LCD, RAXN-LCD-LITE, Main Annunciator Chassis.

| | |
|-------------------------|------------------------------|
| BB-1001D / DR / DS / DB | 9" H x 12.75" W x 1.85" D |
| BB-1002D / DR / DS / DB | 18" H x 12.75" W x 1.85" D |
| BB-1003D / DR / DS / DB | 26.4" H x 12.75" W x 1.85" D |
| BB-1008D / DR / DB | 33" x 22.5" W x 1.85" D |
| BB-1012D / DR / DB | 45" H x 22.5" W x 1.85" D |

Ordering Information

| Model | Description |
|--|--|
| Panel | |
| FX-400B | Intelligent Fire Alarm Control Panel - Black door |
| FX-400R | Intelligent Fire Alarm Control Panel - Red door |
| Displays | |
| RAM-3318-LCD | Remote Annunciator with 4-Line LCD Display |
| RAX-LCD-LITE | Remote Annunciator with 4-Line LCD Display |
| RAM-1032TZDS | 32 Point Remote Main Annunciator with 32 Trouble and Alarm LEDs |
| RAM-1032TZDS-CC | Conformal Coated 32 Point Remote Main Annunciator with 32 Trouble and Alarm LEDs |
| RAX-1048TZDS | Adder Annunciator Chassis c/w 48 Bi-Colored LEDs |
| RAX-1048TZDS-CC | Conformal Coated Adder Annunciator Chassis c/w 48 Bi-Colored LEDs. |
| MGD-32 | Master Graphic Driver Board |
| AGD-048 | Adder Graphic Driver Board |
| SRM-312R | Smart Relay Module with Red Enclosure. Supports up to 12 relays |
| Optional Adder Modules | |
| PR-300 | Polarity reversal and City Tie Module |
| Enclosures | |
| BB-1001D | White Remote Annunciator Enclosure. Houses one module. |
| BB-1001DR | Red Remote Annunciator Enclosure. Houses one module. |
| BB-1001DS | Stainless Steel Remote Annunciator Enclosure. Houses one module. |
| BB-1001DB | Black Remote Annunciator Enclosure. Houses one module |
| BB-1002D | White Remote Annunciator Enclosure. Houses two modules. |
| BB-1002DR | Red Remote Annunciator Enclosure. Houses two modules. |
| BB-1002DS | Stainless Steel Remote Annunciator Enclosure. Houses two modules. |
| BB-1002DB | Black Remote Annunciator Enclosure. Houses two modules. |
| BB-1003D | White Remote Annunciator Enclosure. Houses three modules. |
| BB-1003DR | Red Remote Annunciator Enclosure. Houses three modules. |
| BB-1003DS | Stainless Steel Annunciator Enclosure. Houses three modules. |
| BB-1003DB | Black Annunciator Enclosure. Houses three modules. |
| BB-1008D | White Remote Annunciator Enclosure. Houses eight modules. |
| BB-1008DR | Red Remote Annunciator Enclosure. Houses eight modules. |
| BB-1008DB | Black Remote Annunciator Enclosure. Houses eight modules |
| BB-1012D | White Remote Annunciator Enclosure. Houses twelve modules. |
| BB-1012DR | Red Remote Annunciator Enclosure. Houses twelve modules. |
| BB-10012DB | Black Remote Annunciator Enclosure. Houses twelve modules. |
| BB-1001WPA | White Weather Protected Enclosure. Houses one module. |
| BB-1001WPRA | Red Weather Protected Enclosure. Houses one module. |
| BB-1002WPA | White Weather Protected Enclosure. Houses two modules. |
| BB-1002WPRA | Red Weather Protected Enclosure. Houses two modules. |
| Open Graphic Navigator (OpenGN) Software Licenses | |
| OGN-FLSLIC-ONE | Single Fire Alarm Control Panel License (Price per connection) Requires: OGN-KEY (sold seperately) Contact us for non-Mircom panel connections |
| OGN-FLSLIC-EXP | Fire Alarm Control Panel License for 2-9 Connections (Price per connection) Requires: OGN-KEY(sold seperately) Contact us for non-Mircom panel connections |
| OGN-FLSLIC-STD | Fire Alarm Control Panel License for 10-99 Connections (Price per connection) Requires: OGN-KEY (sold seperately) Contact us for non-Mircom panel connections |
| OGN-FLSLIC-ENT | Fire Alarm Control Panel License for 100+ Connections (Price per connection) Requires: OGN-KEY (sold seperately) Contact us for non-Mircom panel connections |
| OGN-KEY | OGN License Key Stick |

Ordering Information cont'd

| Accessories | |
|-----------------|---|
| RTI-1 | Common Remote Trouble Indicator, Buzzer and LED |
| MP-300 | End of Line Resistor plate. 3K9 |
| BC-160R | External Battery Cabinet - Red |
| BAT-12V12A | Battery 12AH |
| BAT-12V18A | Battery 18AH |
| BAT-12V26A | Battery 26AH (To house BAT-12V26A (26 AH) batteries, an external BC-160R Battery Cabinet is required.) |
| UIMA4 | Interface for Configuring MGC Fire Panels |
| MGC-CONFIG-KIT4 | Fire Panel Configuration KIT with UIMA4 |
| RPL-WC-25022 | Replacement Ribbon Cable for UIMA4 (Pack of 3) |
| ARW-VESP211-KIT | 1-port Ethernet Serial Server Kit Kit includes: 1 x 1-port Ethernet Serial Server 1 x DB9 Female to 5-pin 3.8mm Terminal Block RS485 Adapter 1 x DIN Rail Kit |
| MGC Devices | |
| MIX-4001 | 6" Diameter Base |
| MIX-4002 | 4" Diameter Base |
| MIX-4010 | Photoelectric Smoke Sensor |
| MIX-4010-ISO | Photoelectric Smoke Sensor with Built-in Short Circuit Isolator |
| MIX-4020 | Multi-Sensor Detector |
| MIX-4020-ISO | Multi-Sensor Detector with Built-in Short Circuit Isolator |
| MIX-4030 | Tri-Mode Heat Detector |
| MIX-4030-ISO | Tri-Mode Heat Detector with Built-in Short Circuit Isolator |
| MIX-4040 | Dual Input Module |
| MIX-4041 | Mini Dual Input Module |
| MIX-4042 | Conventional Zone Module |
| MIX-4045 | Dual Relay Module |
| MIX-4046 | Supervised Output Module |
| MIX-4050 | Sync Module |
| MIX-4070 | Short Circuit Isolator Module |
| MIX-4090 | MGC Devices Programmer |
| MS-401MPU | Intelligent Single Stage Manual Station MP |
| MS-407MPU | Intelligent Single Stage Manual Station MP with Additional N.C. Switch |
| MS-710MPU | Intelligent Key-Resettable Single Stage Dual Action Manual Station MP |



Canada
25 Interchange Way
Vaughan, Ontario L4K 5W3
Telephone: (905) 660-4655
Fax: (905) 660-4113

U.S.A.
4575 Witmer Industrial Estates
Niagara Falls, NY 14305
Toll Free: (888) 660-4655
Fax Toll Free: (888) 660-4113



THIS INFORMATION IS FOR MARKETING PURPOSES ONLY AND NOT INTENDED TO DESCRIBE THE PRODUCTS TECHNICALLY.

For complete and accurate technical information relating to performance, installation, testing and certification, refer to technical literature. This document contains intellectual property of Mircom. The information is subject to change by Mircom without notice. Mircom does not represent or warrant correctness or completeness.