



FX-401 with two optional RAX-1048TZDS modules

## Description

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 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.

## Features

Mircom's FX-401 Addressable Fire Alarm Control Panel provides the following:

- Main Board, Power Supply and Backbox.
- One on-board addressable (SLC) loop for MGC Devices (MIX-4000 Series), 240 devices per loop.
- Expandable to three addressable loops for a maximum of 720 MGC devices (MIX-4000 Series), 240 devices per loop.
- Multi-zone fire alarm control panel
- 3500 Main Display with 4 x 20 LCD display.
- Class A (DCLA), Class X (DCLN), or Class B (DCLB) analog loop(s).
- Four Power Limited Class B, Class A NAC circuits (max 1.5 Amps each - 6.0 Amps total).
- 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.
- 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-LITE, RAM-3500-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.



## System Components



### MAM-3500 – Main Display

The FX-401 also supports the RAX-LCD-LITE Remote LCD Annunciator. The RAX-LCD-LITE display mimics the main Fire Alarm Panel display at a remote location. It is equipped with a large 4-line x 20-character back-lit alphanumeric.



### RAM-3500 – Remote Annunciator

The RAM-3500-LCD provides remote annunciation through a 4 line by 20 character LCD display. It is a direct mimic of the main panel display so that the LCD, LEDs and switches are an exact duplicate of the main display. The RAM-3500-LCD provides control switches for System Reset, Signal Silence, Fire Drill and Acknowledge, four Status Queues with selector switches and LEDs for Alarm, Supervisory, Trouble and Monitor, along with a numeric keypad to access the menu functions. The RAM-3500-LCD mounts in separately orderable single unit enclosures or in larger enclosures that support up to two optional RAX-1048TZDS remote LED annunciators. All remote enclosures are equipped with a CAT-30 Lock and key .



### 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. There are five types of enclosure available: the BB-1001, BB-1002, BB-1003, BB-1008, and BB-1012 which can take 1,2,3,8,12 chassis respectively.



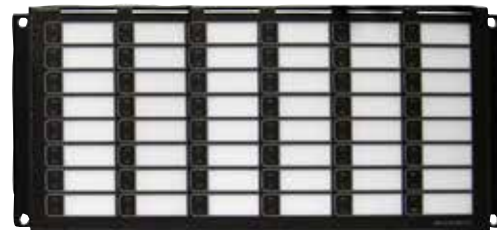
### RAM-1032TZDS Main Remote LED Annunciator

RAM-1032TZDS Main Remote 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.



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

The RAM-1032TZDS-CC 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.



### RAX-1048TZDS Programmable LED Annunciator Module

RAX-1048TZDS Annunciator. The RAX 1048TZDS Programmable LED Annunciator Module provides 48 programmable bi-coloured 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-1000D or BB-5000D Series enclosures.



### RAX-1048TZDS-CC Conformal Coated 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 besides the LED. The RAX-1048TZDS occupies one display position in the BB-1000D or BB-5000D 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. It mounts in a graphic annunciator wall box or in the BB-5000 enclosures



### MGD-32 Master Graphic Driver Module

For use with FX-350, FX-401, FA-1000 and FX-2000 Series 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.



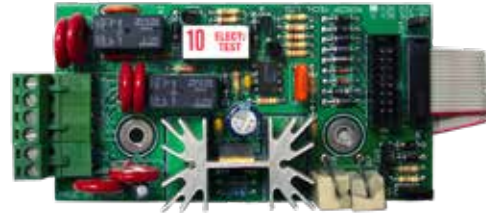
### UIMA4 - Interface for Configuring MGC Fire Panels

The UIMA4 is an interface for configuring Flex-Net, FA-300, FX-350, FX-401, FX-2000, FX-3500, FX-3318, QX-5000, and UDACT-300. 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.



### ALC-480 - 480 Point Dual Loop Adder

The ALC-480 provides two addressable loops (SLC). Each loop can accommodate 240 Mircom MIX-4000 Series devices.



### 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.



**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.**



**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.**



**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-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
<b>Panel</b>	
FX-401	Intelligent Fire alarm control Panel
<b>Annunciators</b>	
RAM-3500-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
<b>Optional Adder Modules</b>	
ALC-480	480 Point Dual Loop Adder
PR-300	Polarity reversal and City Tie Module
<b>Enclosures</b>	
UB-1024DS	Black Back Box
DOX-1024DSR	Red Enclosure Door
DOX-1024DSB	Black Enclosure Door
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 module.
BB-1002DR	Red Remote Annunciator Enclosure. Houses two module.
BB-1002DS	Stainless Steel Remote Annunciator Enclosure. Houses two module.
BB-1002DB	Black Remote Annunciator Enclosure. Houses two module.
BB-1003D	White Remote Annunciator Enclosure. Houses three module.
BB-1003DR	Red Remote Annunciator Enclosure. Houses three module.
BB-1003DS	Stainless Steel Remote Annunciator Enclosure. Houses three module.
BB-1003DB	Black Remote Annunciator Enclosure. Houses three module.
BB-1008D	White Remote Annunciator Enclosure .Houses eight modules.
BB-1008DR	Red Remote Annunciator Enclosure. Houses eight modules.
BB-1008DB	Black Annunciator Enclosure. Houses eight modules.
BB-1012D	White Remote Annunciator Enclosure. Houses twelve modules.
BB-1012DR	Red Remote Annunciator Enclosure. Houses twelve modules.
BB-1012DB	Black Annunciator Enclosure. Houses twelve modules.
BB-1001WPA	Outdoor Weather Protected Enclosure, White Door.
BB-1001WPRA	Outdoor Weather Protected Enclosure, Red Door.
BB-1002WPA	Outdoor Weather Protected Enclosure, White Door.
BB-1002WPRA	Outdoor Weather Protected Enclosure, Red Door.

## Ordering Information cont'd

Model	Description
<b>Accessories</b>	
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
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)
<b>MGC Devices</b>	
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



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