AM Fire & Electronic Services, Inc.
Low Voltage Electrical Commercial Contracting
Alarms, Communications, Audio/Visual
Design/Build, Install, Inspect, Service, Monitor
System Reliability, On Schedule, In Budget Since 1997

FIRE ALARM SYSTEM SERIES FX-2000
Description
The FX-2000 Intelligent Analog Fire Alarm Control Panel is designed to provide maximum flexibility of analog addressable requirements while also providing easy installation and operation at a cost-effective price. The FX-2000 base panel includes one intelligent analog loop controller and four notification circuits. Additional Analog Loop Controller modules may be added to expand the system to a maximum of five addressable loops providing 990 points. In addition, the base panel supports the same adder modules as the 1000 series, allowing for additional notification circuits, relay circuits, and conventional initiation circuits. Equipped with a large 4 x 20 Back-lit Alphanumeric LCD display, the FX-2000 utilizes a simple Menu system complete with a directional keypad, common control switches and LEDs, Alarm Queue switches and LEDs, two configurable input switches and 16 configurable zone LEDs.

Standard Features
- Large system capacity & Modular design
- Four Class A/B (Style Z/Y) Indicating Circuits rated at 1.7 Amps each
- Each Notification Circuit can be configured as Silenceable or Non-Silenceable
- Audible circuits may be configured as Steady, Temporal Code, California Code or March Time
- Each Analog Loop is capable of supporting 99 Analog Sensors and 99 Addressable Modules which can be wired in Class A (Style 6 or 7) or Class B (Style 4)
- Base system supports 16 conventional hardwired modules with the provision to add more using the ALC-H16 Hardwire 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
- Configurable Signal Silence Inhibit, Auto Signal Silence, Two-Stage Operation and One Man Walk Test
- Subsequent Alarm, Supervisory and Trouble operation
- Auxiliary relay contacts for Common Alarm and Common Supervisory as well as a Common Trouble Relay (Each relay contact Form C, 28 VDC @ 1 Amp (resistive))
- RS-232 output for remote system printer or CRT
- Two Event History Logs comprised of a 500 Alarm History Log for alarm related events and a 1000 Event Log for all events
- Front Panel Auto-Configure and/or Computer Programmable
- Large 4 by 20 character Back-lit LCD Display with user friendly menu
- 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
- Two spare configurable input switches
- 16 zone configurable LED annunciator complete with individual slide-in labels for zone definition
- Supports the ALC-QIF Interface Module for the QX-5000 Emergency Zoned Audio System
- Extensive Transient Protection
- 6 Amp or 12 Amp power supplies available
- Removable door for easy installation and servicing
- Removable terminal blocks for easy wiring and servicing

Optional Modules

- FX-UDACT Universal Digital Communicator
- Series 1000 Circuit & Relay Modules
- LED Annunciator, Programmable Input Switch, and Fan/Damper Control Modules available
- ALC-H16 Hardwire Loop Controller – holds an additional 16 Series 1000 adder modules.
- Four sizes of Surface mounted cabinets
- Semi-Flush mounting available with use of optional trim rings

System Components

FX-2003-6 / FX-2003-12
Compact Main Chassis

Main Chassis comes complete with one Analog Loop Controller for 198 Addressable Points, 4 Class A/B (Style Z/Y) Notification Circuits, 3 Relays, a 4-line by 20 character back-lit LCD display, 16 Zone LED Annunciator. A 6 Amp power supply, which charges 10-24 AH batteries, is standard – a 12 Amp power supply is available as an option. It is expandable with a variety of 1000 and 2000 series adder modules plus a FX-UDACT Universal Digital Communicator. It mounts in the BBX-1024 enclosure.
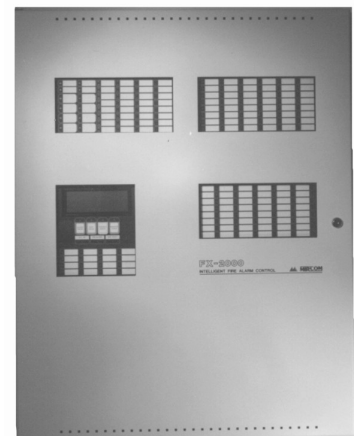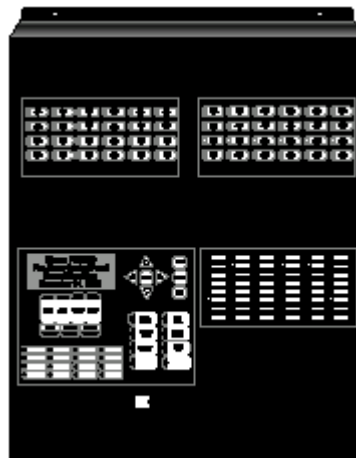
BBX-1024
Compact Enclosure

The small footprint – 26"H x 14"W x 4"D – still has ample room for all wiring necessary, along with a pair of up to 24AH batteries.

FX-2017-12
Mid-Size Main Chassis

Similar to the FX-2003-12, but uses a larger faceplate. This larger faceplate allows for up to three additional annunciator or switch modules to be installed. A greater number of internal expansion modules may be installed as well.

BBX-1072
Mid-Size Enclosure

Designed specifically for the FX-2017-12 chassis, this enclosure provides three openings for additional annunciator, switch, or voice evacuation controls. With its larger size – 33"H x 22¼"W x 7"D – this enclosure can accommodate up to 40AH batteries.

RAX-LCD
LCD Remote Display

At its simplest, the RAX-LCD provides a remote LCD annunciator. In addition, the control buttons of the main panel are replicated – providing for complete remote control capabilities – which can also be programmatically deactivated if desired. The remote display can also be connected to any of the auxiliary annunciator modules – the IPS-2424, FDX-008, and RAX-048 – providing for incredible remote control possibilities. See the Mircom RA-1000 sheet for the various enclosure options available.

AM Fire & Electronic Services, Inc.

Low Voltage Electrical Commercial Contracting

Alarms, Communications, Audio/Visual
Design/Build, Install, Inspect, Service, Monitor
System Reliability, On Schedule, In Budget Since 1997

IPS-2424
Programmable Input Switch Module
The IPS-2424 provides 24 programmable switches with bi-colored LEDs for monitored point status and switch activation. Suitable for group bypass or common control operations.
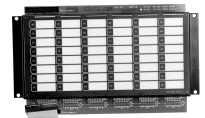
FDX-008
Fan/Damper Control Module
The FDX-008 provides for control of up to 8 smoke control points. LEDs provide run/open and off/closed status. Three position on/auto/off switches provide for smoke control operations.
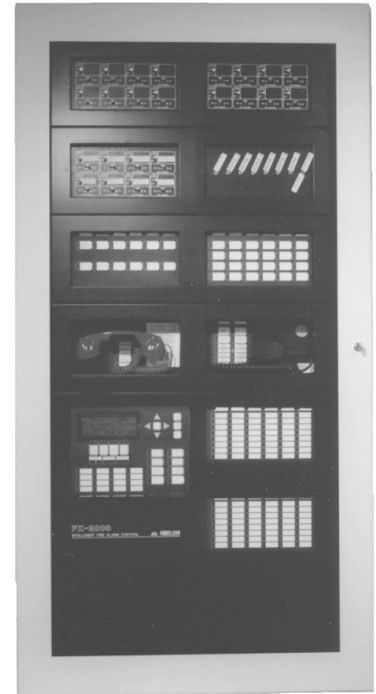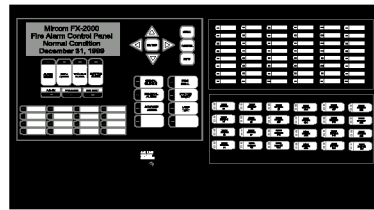
RAX-048
LED Annunciator Module
The RAX-048 provides for 48 bi-colored LEDs for point or group annunciation.

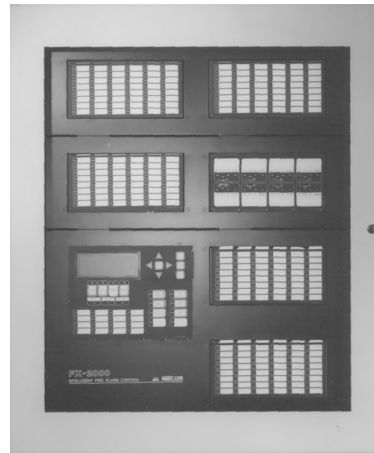### FX-2009-12
Large Size Main Chassis
The FX-2009-12, like the FX-2017-12, has a larger faceplate than the FX-2003-12. The FX-2009-12 allows for up to two additional annunciator or switch modules to be installed. Additionally, up to five ECX-0012 Expander Chassis may be installed to accommodate up to ten annunciator or switch modules. It mounts in the BB-5000 series enclosures.

BBX-5008
Small Lobby Enclosure
With space for the FX-2009-12 chassis and two ECX-0012 expander chassis, this enclosure can blend attractively with any lobby décor.
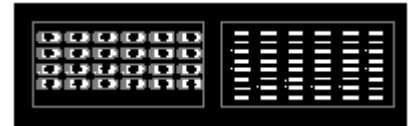30"H x 30"W x 7"D.

BBX-5014
Large Lobby Enclosure
With space for the FX-2009-12 chassis and five ECX-0012 expander chassis, this enclosure provides tremendous capabilities for control and annunciation.   60"H x 30"W x 7"D.

ECX-0012
Expander Chassis
The ECX-0012 Expander Chassis for the FX-2009-12 supports up to 12 adder modules and has space for 2 internal annunciator modules. Mounts in the BB-5000 series enclosures with the FX-2009-12.

ALC-198S & ALC-396S
Analog Loop Controller Modules
ALC-198S is a single loop adder module that provides an additional 198 points. The ALC-396S is a dual loop adder module that provides 396 points.

FX-UDACT

Universal Digital Alarm Communicator

Digital Alarm Communicator Transmitter Module (dialer) allows the Series 2000 to use a phone line to call a Central Station and report an Alarm, Trouble, Waterflow, or Supervisory condition per programmed event. It utilizes either the Ademco Contact ID or SIA-DCS protocols.

See the Series 1000 data sheet for information on the Series 1000 adder modules.

Technical Specifications

Base panel current draw (standby / alarm)... 0.230 amps / 0.380 amps
Base number of signaling circuits... One (1) Style 4, 6, or 7 circuit
Base number of notification circuits.. Four (4) Style Y or Z circuits
NAC voltage.. 24 VDC
Maximum current draw per notification circuit... 1.7 amps
Maximum battery size for 6 or 12 amp power supply... 24 or 40 amp/hours
ALC-198S / ALC-396S / ALC-H16 current draw (standby / alarm)..................................... 0.035 amps / 0.050 amps
RAX-LCD current draw (standby / alarm).. 0.100 amps / 0.150 amps
RAX-048 current draw (standby / alarm)... 0.015 amps / 0.100 amps
IPS-2424 current draw (standby / alarm).. 0.010 amps / 0.144 amps
FDX-008 current draw (standby / alarm)... 0.010 amps / 0.100 amps
FX-UDACT current draw (standby / alarm).. 0.120 amps / 0.300 amps

Applicable standards: NFPA-70, NFPA-72, UL-864