FX-2003-6DS-16LED in a universal enclosure, ordered separately

Description

Mircom's FX-2003-6DS-16LED Intelligent Analog Fire Alarm Control Panel is designed to provide maximum flexibility of intelligent system requirements while also providing easy installation and operation at a cost-effective price.

The FX-2003-6DS-16LED base panel consists of one intelligent signaling line circuit (SLC) capable of supporting 99 intelligent sensors and 99 intelligent modules. In addition the base panel includes Four Class A/B (Style Z/Y) Notification Appliance Circuits rated at 1.7 Amps each, a 4 x 20 back-lit alphanumeric LCD display with 16 bi-colored LEDs and a 6 Amp power supply.

The FX-2003-6DS-16LED with 16 bicolored LEDs has provision to mount two programmable modules such as a RAX-1048TZDS LED annunciator, IPS-2424DS input switch module or an FDX-008W/KI fan damper control module. In addition the FX-2003-6DS-16LED supports up to 3 adder modules such as the ALC-396S SLC loop adder module or SGM-1004A indicating circuit module.

The enclosure which is ordered separately consists of a black backbox (UB-1024DS) with a beige (DOX-1024DS) or red (DOX-1024DSR) door. A Fire Retardant Lexan window in the hinged door allows for viewing of the display and controls. The enclosure comes with a durable CAT-30 lock and key and space is provided for up to 18 AH Gel Cell batteries.
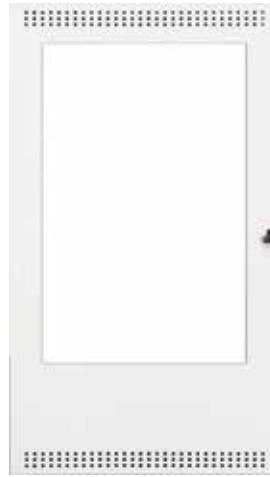
Features

- One expandable to five Intelligent Signaling Line Circuits (SLC)
- Each SLC 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)
- Four Class A/B (Style Z/Y) Notification Appliance Circuits rated at 1.7 Amps each
- Large 4 by 20 character Back-lit LCD Display with user friendly menu and 16 bi-colored LEDs for annunciation
- 6 Amp power supply
- Provision for two programmable modules and 3 adder modules
- Configurable for Two Stage operation
- Three level password protection with field programmable definition which enables the installer to determine what functions are accessible for each password level
- Panel Security to protect site configurations
- Manual Control Enable which allows password protection for all front panel function switches
- Correlatable Switch Inputs which allows for multi-functional outputs
- Four Alarm Queues with selector switches and LEDs for Alarm, Supervisory, Monitor and Trouble
- Auxiliary relay contacts for Common Alarm, Common Supervisory and Common Trouble
- RS-232 output for remote system printer or CRT
- Two Event History Logs comprised of a 1000 Alarm History Log for alarm related events and a 2000 Event Log for all events
- 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
- Built-in One Man Walk Test operation
- Configurable for Coded Operation
- Panel selection for UL or ULC requirements for smoke sensors (sensitivity) via computer laptop
- Capability to adjust Intelligent Smoke Detector sensitivity level

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FX-2003-6DS-16LED Standard Series Fire Alarm Control Panel

DOX-1024DS   DOX-1024DSR

FX-2003-6DS-16LED Expanded Main Control Unit

The FX-2003-6DS-16LED Main Control Unit comes complete with one intelligent signaling line circuit (99 Analog Sensors and 99 Addressable Modules), 4 Class A/B (Style Z/Y) Notification Appliance Circuits (1.7 Amps each), a 4 line by 20 character back-lit LCD display with an additional 16 LED's for annunciation and a 6 Amp Power Supply which charges 10-24 AH batteries. The FX-2003-6DS-16LED has provision for two programmable modules and provides space for up to 3 adder modules. The FX-2003-6DS-16LED comes pre-mounted on a chassis that fits into the separately ordered UB-1024DS universal Backbox enclosure.

UB-1024DS Enclosure

The UB-1024DS enclosure supports one FX-2003-6DS-16LED and up to 18 AH Batteries.   The enclosure features the universal CAT-30 lock and a removable door for easy installation and servicing. The enclosure is available in a white (DOX-1024DS) or red (DOX-1024DSR) exterior door. The FA-XT-TRB Semi-Flush Trim Ring is required for semi-flush mounting.

UB-1024DS Dimensions: 26"H x 14.5"W x 4.2"D
(66 cm x 36 cm x 11 cm)

Adder Loop Controller Modules

ALC-198S Single Analog Loop Controller Module

The ALC-198S Single Analog Loop Controller Module provides an additional analog loop to the FX-2000 consisting of 99 Analog Sensors and 99 Addressable Modules. The ALC-198S occupies one module slot in the FX-2003-6DS-16LED.

ALC-H16 Hardwire Loop Controller Module

The ALC-H16 Hardwire Loop Controller Module allows the FX-2000 to support an additional sixteen (16) conventional hardwire adder modules. The hardwire modules consist of the DM-1008 Eight Initiating Circuit Module, SGM-1004 Four Indicating Circuit Module and the RM-1008 Eight Relay Circuit Module. The ALC-H16 occupies one module slot in the FX-2003-6DS-16LED.

ALC-396S Dual Analog Loop Controller Module

The ALC-396S Dual Analog Loop Controller Module provides two additional analog loops to the FX-2000 consisting of 99 Analog Sensors and 99 Addressable Modules per loop. The ALC-396S occupies one module slot in the FX-2003-6DS-16LED.

FX-2000 Standard Series System Maximums

- **500** Input Circuits
- **150** Output Circuits
- **5** Intelligent Addressable Loops
- **4** Remote LCD Annunciators
- **4** Main LED Annunciators
- **100** Manual Control Switches
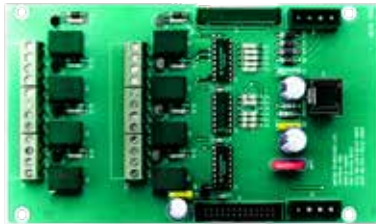
Adder Hardwire Modules

DM-1008A Eight Initiating Circuit Module
The DM-1008A provides 8 Class B (Style B) or 4 Class A (Style D) Initiating Circuits configurable for Alarm, Supervisory or Trouble zones. The DM-1008A occupies one module slot in the FX-2003-6DS-16LED.

SGM-1004A Four Indicating Circuit Module
The SGM-1004A provides 4 Class A/B (Style Z/Y) Notification Appliance Circuits configurable as Silenceable or Non-Silenceable. Each NAC circuit is rated at 1.7 Amps. The SGM-1004A occupies one module slot in the FX-2003-6DS-16LED.

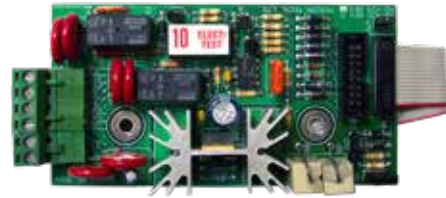### RM-1008A Eight Relay Circuit Module
The RM-1008A provides the FX-2003-6DS-16LED with eight individual configurable relays per module. Each relay provides one Form C contact rated at 28 VDC @1 Amp (resistive load) as well as a Green LED to indicate that the relay is active. The RM-1008A occupies one module slot in the FX-2003-6DS-16LED.

Adder Auxiliary Modules

UDACT-300A Digital Alarm Communicator Module
The UDACT-300A Digital Alarm Communicator Module allows the FX-2003-12N to transmit addressable point information to a central station. The UDACT-300A occupies one module slot in the FX-2003-6DS-16LED.

PR-300 Polarity Reversal/City Tie Module
The PR-300 Polarity Reversal/City Tie Module provides the system with a supervised City Tie and Polarity Reversal connection. The PR-300 occupies one module slot in the FX-2003-6DS-16LED.

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Programmable Modules

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 panel or a RAX-LCD or RAM-1032TZDS when mounted remotely. The RAX-1048TZDS occupies one display position in the UB-1024DS, BBX-1024XT, BB-1000 or BB-5000 Series enclosures.

FDX-008W

FDX-008WKI

FDX-008W/KI Fan Damper Modules
The FDX-008W Fan Damper Module provides configurable output circuits for Fan Damper and Purge control and has 8 switches.

The FDX-008WKI provides 7 switches and a terminal block is used to connect a key switch to enable the fan/purge control function.

The FDX-008W/KI connects to the main panel or the RAX-LCD when mounted remotely. It uses MIX-M500CH for control of fans or dampers and two MIX-M501A for status. The FDX-008W/KI occupies one display position in the UB-1024DS, BB-1000 or BB-5000 enclosures.
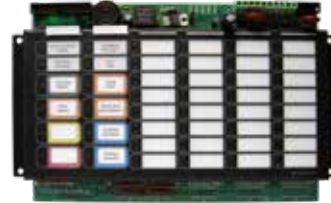

IPS-2424DS Programmable Input Switches Module
The IPS-2424DS provides 24 programmable switches that can be configured for ancillary functions such as zone bypass or added common control functions. The IPS-2424DS connects to main panel or the RAX-LCD when mounted remotely. The IPS-2424DS occupies one display position in the UB-1024DS, BBX-1024XT, BB-1000 or BB-5000 Series enclosures.

Remote Annunciators

RAX-LCD Remote LCD Annunciator
The RAX-LCD Remote LCD Annunciator provides the same functions as the main display on the fire alarm control panel. The RAX-LCD occupies one display position in the BB-1000 or BB-5000 Series enclosures.

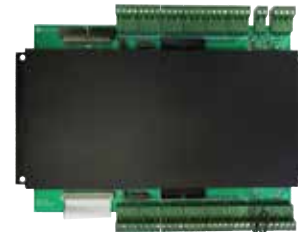

RAM-1032TZDS Main Remote LED Annunciator
The RAM-1032TZDS Main Remote LED Annunciator provides common annunciator functions and 32 Bi-Coloured LEDs and 32 Trouble LEDs. The RAM-1032TZDS occupies one display position in the BB-1000 or BB-5000 enclosures.

Graphic Annunciator Driver Modules

MGD-32 Master Graphic Driver Module
The MGD-32 Master Graphic Driver Module provides common control inputs for the common control switches. The MGD-32 mounts in a graphic annunciator wallbox or in the BB-5000 enclosures. An external power supply required for incandescent lamps and lamp test.

AGD-048 Adder Graphic Driver Module
The AGD-048 Adder Graphic Driver Module can be used with the MGD-32 to support an additional 48 supervised outputs. The AGD-048 mounts in a graphic annunciator wallbox or in the BB-5000 enclosures.

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FX-2003-6DS-16LED Electrical Specifications

AC Line Voltage	120V 60Hz / 240V 50Hz 2 Amps. / 1 Amps. (primary)
Power Supply ratings	6 Amps. Max. (secondary)
Indicating Circuits	24VDC unfiltered 5 Amps. max.
Battery	24VDC, Gel-Cell Lead-Acid
Charging Capability	10-24 AH batteries
Current Consumption	Standby	230 mA
	Alarm	380 mA

Ordering Information

Model	Description
FX-2003-6DS-16LED	Expanded Main Control Unit c/w one Intelligent Signaling Line Circuit (SLC), with an additional 16 LED Zones for annunciation, 4 Class A/B (Style Z/Y) Notification Appliance Circuits and a 6 Amp power supply. Provides space for two programmable modules and 3 adder modules. Mounts in the UB-1024DS enclosure.
UB-1024DS	Universal Backbox for Compact Main Control Units, Black
DOX-1024DS	Universal Door for UB-1024DS Backbox, White
DOX-1024DSR	Universal Door for UB-1024DS Backbox, Red
Adder Loop Controller Modules	
ALC-198S	Single Loop Intelligent Analog Loop Controller Module (99 Analog Sensors and 99 Addressable Modules)
ALC-396S	Dual Loop Intelligent Analog Loop Controller Module (198 Analog Sensors and 198 Addressable Modules)
ALC-H16	Hardwire Loop Controller Module. Supports 16 Conventional Hardwired Modules.
Adder Hardwire Modules	
DM-1008A	Eight Class B (Style B) or 4 Class A (Style D) Initiating Circuit Module
SGM-1004A	Four Class A/B (Style Z/Y) Indicating Circuit Module (Rated at 1.7 Amps per circuit)
RM-1008A	Eight Relay Circuit Module c/w eight form C relays (Rated for 28 VDC @ 1 Amp max. per relay)
Adder Auxiliary Modules	
UDACT-300A	Digital Alarm Communicator Transmitter/Dialer Module
PR-300	Polarity Reversal and City Tie Module
Programmable Modules	
RAX-1048TZDS	Programmable Adder LED Annunciator Module c/w 48 bi-coloured LEDs and and 48 Trouble LEDs
IPS-2424DS	Programmable Input Switches Module c/w 24 selector switches and 24 bi-coloured LEDs
FDX-008W	Fan Damper Control Display Module (8 SWITCH)
FDX-008WKI	Fan Damper Control Display Module (7 SWITCH & KEY)
Remote Annunciators	
RAX-LCD	Remote Shared Display LCD Annunciator c/w Display Queues and Common Controls.
RAM-1032TZDS	Main LED Annunciator Module c/w Common Control Features, Indicators and 32 Bi-Coloured LEDs and 32 Trouble LEDs
Graphic Annunciator Driver Modules	
MGD-32	Master Graphic Driver Module c/w Fire Alarm Common Control Switch Inputs and 32 Supervised Outputs
AGD-048	Adder Graphic Driver Module c/w 48 Supervised Outputs