MMX-2009-12NDS

INTELLIGENT FIRE ALARM CONTROL UNIT

MMX-2009-12NDS in a BB-5008 enclosure.

Description

Secutron's MMX-2009-12NDS Network Fire Alarm Control Unit offers modular components to meet a wide variety of applications. Designed for peer-to-peer network communications, the MMX-2009-12NDS allows for a maximum of 63 nodes, while providing reliability, flexibility and expandability.

The MMX-2009-12NDS base unit consists of one intelligent signaling line circuit (SLC) capable of supporting 159 analog sensors and 159 addressable modules. In addition the base unit also consists of Four Style Z/Y (Class A/B) Notification Appliance Circuits rated at 1.7 Amps each and a large 4 x 20 back-lit alphanumeric LCD display.

The MMX-2009-12NDS network configuration allows the control unit to be connected to a Secutron network to provide additional input circuits, visual zones, programmable notification appliance circuits, and relays. The network interface module allows the control units to communicate on a peer-to-peer network.

The network capabilities allow site specific customization and the ability to meet local and national requirements.

Features

Fire Alarm Control

- One expandable to seventeen Intelligent Signaling Line Circuits (SLC)
- Modular design
- Each SLC Loop is capable of supporting 159 Analog Sensors and 159 Addressable Modules which can be wired in Style 6 or 7 (Class A) or Style 4 (Class B)
- Four Style Z/Y (Class A/B) Notification Appliance Circuits rated at 1.7 Amps each
- Large 4 by 20 character Back-lit LCD Display with user friendly menu
- Supported languages: English, French, Arabic* and Hebrew* (*960 character back-lit LCD display only)
- Panel Security to protect site configurations
- Correlatable Switch Inputs which allows for multi-functional outputs
- Four Status Queues with selector switches and LEDs for Alarm, Supervisory, Monitor and Trouble
- Auxiliary relay contacts for Common Alarm, Common Supervisory and Common Trouble
- Group bypass with built-in false alarm prevention technology
- RS-232 output for remote system printer or CRT
- Two Event History Logs: one for alarm-related events and one for all events
- Supports three configuration files (current, previous and next configuration) with "hot swap" support
- Supports Conventional Hardwire Adder Modules
- Built-in One Man Walk Test operation
- Configurable for Canadian Two Stage operation
- Configurable for Coded Operation
- Real time 3D graphical monitoring and control using Secutron's Open Graphic Navigator™
- BACnet support
- Supports Boolean logic functions
- Built-in Ethernet port
- Remote diagnostics via a built-in web server
- UL listed for Smoke Control

Network Features

- Up to 63 nodes
- Peer-to-peer network communications
- Multiple Lobby Control Centers
- Style 4 (Class B) or Style 6 or 7 (Class A) wiring configuration
- Proprietary Arcnet Network Communications protocol
- Supports copper and/or fiber optic network cable

NYC Fire Dept.

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MMX-2009-12NDS Network Series Fire Alarm Control Units

MMX-2009-12NDS Large Size Network Main Control Unit

The MMX-2009-12NDS Network Large Size Main Control Unit comes complete with one Intelligent Signaling Line Circuit (SLC) Style 4, 6 or 7, Four Style Z/Y (Class A/B) Notification Appliances Circuits (1.7 Amps each), a 4 line by 20 character back-lit LCD display and a 12 Amp Power Supply. The MMX-2009-12NDS provides space for the FNC-2000 Network Controller Module, up to 8 adder modules and 2 internal display adder modules. The MMX-2009-12NDS mounts in the BB-5000 Series enclosures.

Power Supply Expansion

INX-10AC Internal Booster Power Supply Module

The INX-10AC is an Intelligent Booster Power Supply that extends the power capabilities of existing notification appliance circuits as well as provide power for other ancillary devices. The INX-10AC has 10 amps of power and mounts inside the BB-5014 enclosure.

Mounting Brackets

M500-BK9 Module Mounting Bracket

The M500-BK9 Module Mounting Bracket mounts inside the BB-5000 Series enclosures and provides space to mount up to nine M500 style intelligent modules.

Electrical Specifications

Primary Input Power	120V 60Hz / 240V, 50Hz 4 Amps / 2 Amp (primary)
Power Supply Ratings	12 Amps. max. (secondary)
For NAC Circuits	24VDC unfiltered, 10 Amps. max.
Battery Type	24VDC, Gel-Cell/Sealed Lead-Acid
Battery Charging Capability	17-65 AH batteries

ECX-0012 Expander Chassis

The ECX-0012 Expander Chassis for the MMX-2009-12NDS supports up to 12 adder modules and has space for 2 internal display modules. The ECX-0012 mounts in the BB-5000 Series enclosures.

BB-5008/BB-5014 Lobby Enclosures

The BB-5008 and BB-5014 lobby enclosures support the MMX-2009-12NDS Network Lobby Control chassis and provide space for internal lobby control modules. The cabinets hold up to 24 AH batteries. The door and chassis hardware are ordered separately.

BB-5008 Dimensions: 36"H x 30"W x 7"D
BB-5014 Dimensions: 60"H x 30"W x 7"D

Graphics Software

Open Graphic Navigator (OpenGN)

The Open Graphic Navigator (OpenGN) software is an advanced fire alarm management and warning system that provides building ready monitoring, control and software management solutions that allows a user to monitor remote sites from multiple operator workstations located anywhere in the world. The OpenGN software is available in two versions: Network (OPENGN-ENT) and Non-Network (OPENGN-MINI).

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Fire Network Controller Modules

FNC-2000 Fire Network Controller Module

The FNC-2000 provides network capability to the MMX-2009-12NDS. One Fire Network Controller Module is required per network node. In addition the FNC-2000 provides an interface for adding an optional FOM-2000-SP Fiber Optic Network Adder Module. The FNC-2000 mounts in the MMX-2009-12NDS main chassis.
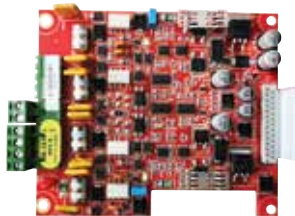

FOM-2000-SP Fiber Optic Network Adder Module

he FOM-2000-SP Fiber Optic Network Adder Module allows for the use of fiber optic cabling on the MMX-2009-12NDS. It seamlessly connects to the interface on the FNC-2000 Fire Alarm Network Controller Module.

Adder Loop Controller Modules

ALCN-792MISO Quad Loop Controller Module

The ALCN-792MISO Quad Loop Controller Module provides two Signaling Line Circuits (SLC) to the MMX system consisting of 159 Analog Sensors and 159 Addressable Modules per loop. The ALCN-792MISO can be expanded with the use of the ALCN-792D Daughter Board Module. The ALCN-792MISO occupies one module slot. The ALCN-792MISO module adds loop isolation.

ALCN-792D Daughter board for Quad Loop Controller Module

The ALCN-792D Daughter Board provides an additional two SLC when connected to the ALCN-792MISO Quad Loop Controller Module. The daughter board mounts on top of the ALCN-792MISO.

Dimensions for Annunciator Module Enclosures

Model	Dimensions
MMX-BB-1001DR	9"H x 12.75"W x 1.85"D
MMX-BB-1002DR	18"H x 12.75"W x 1.85"D
MMX-BB-1003DR	26.4"H x 12.75"W x 1.85"D
MMX-BB-1008DR	33"H x 22.5"W x 1.85"D
MMX-BB-1012DR	45"H x 22.5"W x 1.85"D

Adder Hardwire Modules

DM-1008A Eight Initiating Circuit Module

The DM-1008A provides 8 Style B (Class B) or 4 Style D (Class A) Initiating Circuits configurable for Alarm, Supervisory or Trouble zones. The DM-1008A occupies one module slot in the MMX-2009-12NDS main chassis.

SGM-1004A Four Notification Appliances Circuit Module

The SGM-1004A provides 4 Style Z/Y(Class A/B) Notification Appliance Circuits. Each NAC circuit is rated at 1.7 Amps and has individual signal silence inputs which are jumper selectable. The SGM-1004A occupies one module slot in the MMX-2009-12NDS main chassis.

RM-1008A Eight Relay Circuit Module

The RM-1008A provides the system 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 MMX-2009-12NDS main chassis.

Adder Auxiliary Modules

UDACT-300A Digital Alarm Communicator Module

The UDACT-300A Digital Alarm Communicator Module allows the system to transmit addressable point information to a central station. The UDACT-300A occupies one module slot in the MMX-2009-12NDS main chassis.

PR-300 Polarity Reversal/City Tie Module

The PR-300 Polarity Reversal/City Tie Module provides the system with a supervised City Tie (24 VDC/200 mA max.) and Polarity Reversal connection (24 VDC (open circuit), 8 mA max. (shorted)). The PR-300 occupies one module slot in the MMX-2009-12NDS main chassis.

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Remote LCD Annunciators
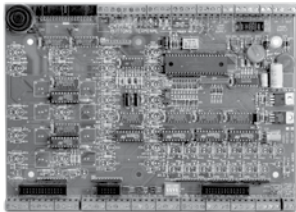

RAXN-LCD Remote LCD Annunciator

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

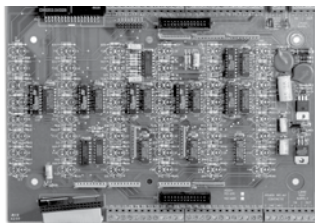## RAXN-LCDG Remote Graphic LCD Annunciator

The RAXN-LCDG Remote Graphic LCD Annunciator is equipped with a 24 line x 40 character back-lit graphical LCD display that is used to display 9 events per page. Each event is displayed over 2 lines with 40 characters per line allowing emergency information to be displayed in an easy to read format.   The RAXN-LCDG occupies one display position in the MMX-BB-1000 or BB-5000 Series 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 such as System Reset, Signal Silence, Auxiliary Disconnect, Fire Drill, Lamp Test, Acknowledge and General Alarm. The MGD-32 can also drive up to 32 supervised outputs. These output points are capable of driving LEDs or incandescent lamps. The MGD-32 mounts in a graphic annunciator wallbox or in the BB-5000 enclosures. An external power supply is required for incandescent lamps and lamp test.

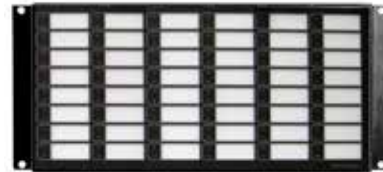## AGD-048 Adder Graphic Driver Module

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 Series enclosures.

Remote LED Annunciators

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 MMX-BB-1000 or BB-5000 Series enclosures.
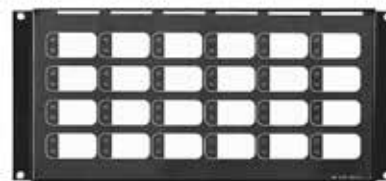

RAX-1048TZDS LED Annunciator Module

The RAX-1048TZDS Programmable LED Annunciator Module provides 48 programmable bi-colored LEDs. The RAX-1048TZDS connects to the main control unit or either the RAXN-LCD or RAM-1032TZDS when mounted remotely. The RAX-1048TZDS occupies one display position in the MMX-BB-1000 or BB-5000 Series enclosures.

Programmable Modules

FDX-008W/KI Fan Damper Module

The FDX-008W/FDX-008WKI Fan Damper Control Module provides individually programmed circuits which can be used for fan or damper control. The FDX-008W/FDX-008WKI connects to the main panel or the RAXN-LCD and occupies one display position in the BBX-FXMNS, BB-1000 or BB-5000 Series enclosures.

IPS-2424DS/IPS-4848DS Programmable Input Switches Module

The IPS-2424DS/IPS-4848 provides 24/48 programmable switches that can be configured for ancillary functions such as zone bypass or added common control functions. The IPS-2424DS/IPS-4848DS connects to main control unit or the RAXN-LCD when mounted remotely. The IPS-2424DS/IPS-4848DS occupies one display position in the MMX-BB-1000 or BB-5000 Series enclosures.

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Ordering Information

Model	Description
Network Fire Alarm Control Unit	
MMX-2009-12NDS	Large Network Main Control Unit. Mounts in the BB-5000 series enclosures.
ECX-0012	Expander Chassis for the MMX-2009-12NDS. Mounts in the BB-5000 series enclosures.
Enclosures	
BB-5008	Lobby Control Centre Wallbox Enclosure. Supports 8 Module Footprints.
MMX-DOX-5008MR	Red Metal Door for BB-5008.
CCH-5008	Custom Mounting Kit for BB-5008. One required per BB-5008.
BB-5014	Lobby Control Centre Wallbox Enclosure. Supports 14 Module Footprints.
MMX-DOX-5014MR	Red Metal Door for BB-5014.
CCH-5014	Custom Mounting Kit for BB-5014. One required per BB-5014.
Network Controller Modules	
FNC-2000	Fire Network Controller Module
FOM-2000-SP	Fiber Optic Network Adder Module
Adder Loop Controller Modules	
ALCN-792MISO	Isolated Quad Loop Controller Module
ALCN-792D	Daughter board for ALC-792MISO Quad Loop Controller Module
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) Notification Appliances 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
Remote Annunciators	
RAXN-LCD	Remote LCD Annunciator
RAXN-LCDG	Remote Graphic LCD Annunciator
RAM-1032TZDS	Main Remote LED Annunciator c/w 32 Bi-Colored LEDs
RAX-1048TZDS	Programmable LED Annunciator Module c/w 48 Bi-Coloured LEDs and 48 Trouble LEDs
Programmable Modules	
IPS-2424DS	Programmable Input Switches Module c/w 24 selector switches and 24 bi-coloured LEDs
IPS-4848DS	Programmable Input Switches Module c/w 48 selector switches and 48 bi-coloured LEDs
FDX-008W	Fan Damper Control Module c/w 8 programmable switches
FDX-008WKI	Fan Damper Control Module
Power Module	
INX-10AC	Internal Booster Power Supply Module
Enclosures for Remote Annunciators / Programmable Modules	
MMX-BB-1001DR	Remote Enclosure. Houses one module.
MMX-BB-1002DR	Remote Enclosure. Houses two modules.
MMX-BB-1003DR	Remote Enclosure. Houses three modules.
MMX-BB-1008DR	Remote Enclosure. Houses eight modules.
MMX-BB-1012DR	Remote Enclosure. Houses twelve modules.
Graphic Driver Modules	
MGD-32	Main Graphic Driver Module c/w 32 Supervised Outputs
AGD-048	Adder Graphic Driver Module c/w 48 Supervised Outputs
Graphics Software	
OGN-FLSLIC-ONE	Single Fire Alarm Control Panel License (Price per connection) Requires: OGN-KEY (sold seperately) Contact us for non-Secutron panel connections

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

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Ordering Information cont'd

OGN-FLSLIC-EXP	Fire Alarm Control Panel License for 2-9 Connections (Price per connection) Requires: OGN-KEY(sold seperately) Contact us for non-Secutron 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-Secutron 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-Secutron panel connections
OGN-KEY	OGN License Key Stick
Accessories	
UIMA4	Interface for Configuring MGC Fire Panels
MGC-CONFIG-KIT4	Fire Panel Configuration KIT with UIMA4