

MR-3500 Series

Intelligent Fire Control Unit & Agent Release Control Unit



MR-3500 with two optional RAX-1048TZDS modules

Description

Secutron's MR-3500 is a series of powerful Intelligent Addressable Fire Alarm Control Units which include Release Control Units (RCUs). These panels are UL 864Rev 9 and ULC S527-2011 listed for fire control and releasing service.

The MR-3500 is recommended for both new and retrofit special-hazard/critical- infrastructure suppression/special agent applications. Small in enclosure size yet powerful enough to deliver complex programming requirements, the MR-3500 is fully expandable.

The MR-3500 provides up to three addressable Signal Line Circuits (UL's-SLC or ULC's-Data Communication Links- DCLs) and connects up to 954 addressable devices/points. Capable of releasing up to six discrete physical hazard zones, the MR-3500 offers exceptional value for complex installations.

Elegant configuration options by onsite laptop, or when required by the Engineer of Record, by remote PC via modem, the MR-3500 can be operational with minimal set up time.

Programming versatility makes the MR-3500 Series the ideal choice for dependable fire detection, signaling and protection in industrial, commercial and institutional buildings. Typically these environments require agent-based suppression solutions easily managed by the MR-3500 Intelligent Addressable Release Control Unit.

Features

- One onboard SLC/DCL communication circuit that supports up to 318 addressable devices/points;
- Expandable to three SLC/DCL communication circuits that supports up to 954 addressable devices/points;
- Reliable and industry proven dedicated releasing power supply;
- Six dedicated hazard zone LED indicators;
- Convenient USB Programming port;
- Built-in UDACT/DACT for remote monitoring;
- Enhanced tactile response for operator interface;
- 4 x 20 character Liquid Crystal Display (LCD);
- Easy to read numerical keypad;
- 10 Ampere (Amp.) Power Supply to satisfy typical releasing load requirements;
- Four Class A/B Notification Appliance Circuits (NAC) rated at 1.5Amp. each;
- SLC is capable of NFPA 72 Style 4, Style 6, or Style 7 wiring & ULC's DCL-A & DCL-B;
- Resettable auxiliary power supply;
- Four easy to read status queues with selector switches and LEDs for Alarm, Supervisory, Trouble and Building Safety (Formerly Monitor) Input visual indications;
- Supports up to seven remote annunciators;
- Accessible multifunction RS-232 port for:
 - Serial Communication interface
- RS-485 Interface for remote LCD/LED Annunciators and other devices;
- Optional City Tie/Polarity Reversal module for central station monitoring.



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Mechanical Features

- The MR-3500 supports both flush and surface mount applications;
- Dimensions 26" x 14.5" x 4.2"
66 cm x 36 cm x 11 cm
- Modular display placement options;
- Fits up to 2, 18 Ampere Hour batteries.
- Durable CAT-30 lock and key.
- Removable enclosure door.
- Easy access to all modules for serviceability.

Software and Operational Features

Audible alarm response within three seconds of activation in Advanced Protocol mode (when using AP devices only);

- AP is a completely digital protocol;
- AP is an Interrupt base protocol;
- Individual LED Control;
- Releasing capability for up to 6 Zones
- Supports Pre-Action/Agent Release and Deluge Applications;
- Supports up to 3 SLC loops and 954 points
- Supports CLIP and AP System Sensor protocols;
- Built-in strobe synchronization support for Mircom, System Sensor, Gentex and Wheelock protocols;
- Grouped inputs and outputs;
- NACs can be configured as Silenceable or Non-Silenceable for both signals and strobes;
- Group bypass with built-in false alarm prevention technology;
- Zone Counting;
- Built-in Drift Compensation for AP protocol;
- Positive Alarm Sequence;
- Configurable Signal Silence Inhibit, Auto Signal Silence, Two Stage Operation and One-Man Walk Test;
- Relay contacts for Common Alarm, Auxiliary/ Alarm (Disconnectable), Common Supervisory and Common Trouble;
- Two event history logs comprised of a 400 event alarm log for alarm related events and a 400 event general log for all other events;

Additional Features

- Compatible with INX-10A Addressable Intelligent NAC Expander Panel.
- Supports Acclimate smoke detection sensors.



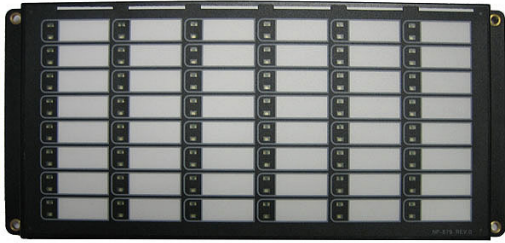
Sensors can be configured as:

- Alarm Input
- Priority Alarm
- Verified Alarm
- Latched Supervisory
- Non-Latching Supervisory
- Monitor
- Trouble Input

MR-3500 Features and Benefits

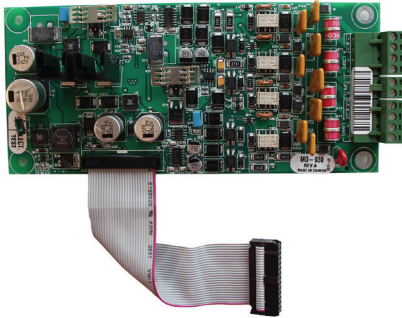
- Cross-zoned or Counting Zone Smoke Detection programming to enable release by either counting active zone detection circuits or active cross-zoned detection circuits (includes options for single, double, triple and 2 different inputs counting zones)
- The MR-3500 Series RCUs are fully expandable to meet the demanding requirements for mission critical facilities, both inside the high value asset areas and also in the office environments.

Optional Adder Modules



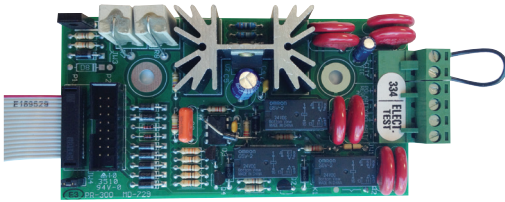
RAX-1048TZDS Programmable LED Annunciator Module

The RAX-1048TZDS Programmable LED Annunciator provides the MR-3500 with 48 Programmable Alarm/Supervisory Bi-colored LEDs & 48 Trouble LEDs which can be configured as: Alarm (Red), Supervisory (Amber), Trouble (Amber) or Monitor (Amber). The RAX-1048TZDS mounts in the MR-3500 enclosure.



ALC-636 Dual Loop Controller Module

The ALC-636 Dual Analog Loop Controller Module provides two additional Signaling Line Circuits (SLC) to the MR-3500 consisting of 159 intelligent sensors and 159 intelligent modules per loop. The ALC-636 mounts in the MR-3500 enclosure.



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 PR-300 provides an interface between the control panel indicating circuits and a master box. As a polarity reversal module the PR-300 provides an interface between the control panel and a reverse polarity receiver.

Remote Annunciators



RAM-3500-LCD Remote LCD 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 MR-3500 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 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 MMX-BB-1001, MMX-BB-1002, MMX-BB-1003, MMX-BB-1008, and MMX-BB-1012 which can take 1,2,3,8,12 chassis respectively.

Ordering Information

Model	Description
MR-3500	Single Loop, 318 Point Intelligent Fire Alarm Control Unit with built-in UDACT/Digital Communicator, expandable to 954 points with ALC-636 Dual Loop controller module. Includes UB-1024DS back box and DOX-1024DSR red door.
MR-3500RCU	All features of the MR-3500 plus releasing capability included.
Optional Adder Modules	
ALC-636	Dual Loop Controller Module
PR-300	Polarity Reversal/City Tie Module
PCS-100	Power Supply Interface Board
Remote Annunciators	
RAM-3500-LCD	Remote LCD Annunciator with 4-line display. Mounts in a BB-1000 Series enclosure.
RAX-LCD-Lite	Remote Annunciator with Large LCD display. Mounts in a BB-1000 Series enclosure.
RAX-1048TZDS	Programmable Remote LED Display Adder with 48 programmable bi-colored LEDs and 48 Trouble LEDs. Mounts in a BB-1000 Series enclosure.
RAM-1016TZDS	16 Zone Remote LED Annunciator with trouble LEDs. Mounts in a BB-1000 Series enclosure.
RAM-1032TZDS	32 Zone Remote LED Annunciator with trouble LEDs. Mounts in a BB-1000 Series enclosure.
AGD-048	Graphic Annunciator Adder Driver Module
MGD-32	Graphic Annunciator Driver Module
RTI-1	Remote Trouble Indicator, Buzzer and LED
Enclosures for Remote Annunciators	
MMX-BB-1001R	Remote enclosure, red door. Houses 1 module.
MMX-BB-1002R	Remote enclosure, red door. Houses 2 modules.
MMX-BB-1003R	Remote enclosure, red door. Houses 3 modules.
MMX-BB-1008R	Remote enclosure, red door. Houses 8 modules.
MMX-BB-10012R	Remote enclosure, red door. Houses 12 modules.
Other Items	
INX-10A	Intelligent NAC Expander Panel
MMX-BC-160R	External Battery Cabinet
MR-2312-SR12	Smart Relay Module with Red Enclosure. Can support up to 12 relays.
MP-3500R	Solenoid EOL Module (Red) - 47K.
MP-300R	End of Line Plate, Red.

Note: For releasing application please see the Releasing Guide LT-1091SEC

