

MR-2320 Series

Agent Release Control Panel



Description

Secutron's MR-2320 is a dual releasing control panel that is field configurable for use on Deluge Sprinkler Systems, Pre-action Sprinkler Systems and Agent Release Systems.

The MR-2320 is equipped with six Class "B" (Style "B") input circuits and four Class "B" (Style "Y") output circuits rated @ 1.7 Amps maximum. (Total of 5 Amps) Optional Class A converter modules are available for both input and output circuits. In addition both internal and external relays are supported by the MR-2320. The relays can be configured for both single and dual hazard applications.

The MR-2320 is field configurable for three releasing type functions; Deluge, Pre-Action Sprinklers and Agent Releasing. The mode of operation is easily configured by selecting one of 14 pre-configured modes of operation. The simple configuration process is done via the front panel using the CFG-300 configuration tool thus eliminating the need for a laptop or complicated programming.

The MR-2320 comes complete with a red or white door, black enclosure, durable CAT-30 lock and key and space to mount up to 12 AH batteries. An optional trim ring is available for semi-flush mounting.

Features

- Listed to UL 864, 9th edition
- Field configurable to operate with a Deluge Sprinkler System, a Pre-action Sprinkler System and an Agent Release System
- Six Class B (Style B) Input Circuits
- Input Circuits One to Four can be configured as Non-Verified Alarm, Non Latching Supervisory, Latching Supervisory or Agent Release/Water Flow depending on the Mode of Operation selected
- Input Circuits Five & Six can be configured as Manual Release Input, Abort Input or Abort/Manual Release Combination Input depending on the Mode of Operation selected
- Input Circuits can be converted to Class "A" (Style "D") using the MR-2300-A Converter Module
- Four Class "B" (Style "Y") Output Circuits which can be configured for Silenceable Signal, Non-Silenceable Signal, Silenceable Strobe, Non-Silenceable Strobe or Releasing Circuit (Circuits 3 & 4 Only)
- Output Circuits can be converted to Class "A" (Style "Z") using the MR-2300-NC4 Converter Module
- 6 Amp Power Supply
- 4-wire smoke power 22.3 VDC @ 300ma max. Supervised Aux Power 22.3 VDC @ 500ma max.
- Aux Power (Unregulated) 24 VDC @ 1.7 Amp max.
- Relay contacts for Common Alarm (Non Disconnectable), Auxiliary Alarm (Disconnectable), Common Supervisory (can be converted to common alarm if no Supervisory input) and Common Trouble
- Cross Zone option
- Counting Zones option
- Output signals can be configured for Steady (fixed) or Escalating (tone changes as input operation changes)
- Release Timer 0 to 60 Seconds (5 second increments)
- Manual Release Delay 0 to 30 Seconds (5 second increments)
- Soak Timer 0 to 15 Minutes (21 Intervals)
- Abort Release Timer (Standard UL Type Delay, IRL Type Delay, NYC Type Delay, Local Jurisdiction Delay)
- Special Releasing Power Supply and Release Activation Considerations preventing false dumps
- Configurable to perform two hazard areas
- Simple panel programming through 14 Pre-Configured Modes of Operations



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SECUTRON INC.

Canada 25 Interchange Way, Vaughan (Toronto), Ontario L4K 5W3 Tel: (905) 695-3545 Fax: (905) 660-4113
 U.S.A. 4575 Witmer Industrial Estates, Niagara Falls, NY 14305 Tel: (888) 695-3545 Fax: (888) 660-4113
 Web Page: www.secutron.com • Email: mail@secutron.com

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Optional Modules

MR-2300-A Input Circuit Class “A” Converter Module

The MR-2300-A converts the six Class “B” (Style “B”) input circuits on the MR-2320 to Class “A” (Style “D”) circuits. The MR-2300-A is equipped with wire leads to connect to the MR-2320 main board.

MR-2300-NC4 Output Circuit Class “A” Converter Module

The MR-2300-NC4 converts the four Class “B” (Style “Y”) output circuits on the MR-2320 to Class “A” (Style “Z”) circuits. The MR-2300-NC4 is equipped with wire leads to connect to the MR-2320 main board.

MR-2306-R6 Relay Circuit Adder Module

The MR-2306-R6 provides six configurable relay circuits, rated @ 28 VDC, 1 amp (resistive). The MR-2306-R6 can be configured for single or dual hazard applications.

MR-2312-SR12 Smart Relay Module

The MR-2312-SR12 provides the same features as the MR-2306-R6 module. The MR-2312-SR12 provides twelve configurable relay circuits, rated @ 28 VDC, 1 amp (resistive). The MR-2312-SR12 comes with a red enclosure and is mounted remotely from the panel on an RS-485 connection.

Remote Annunciators

MR-2306-ATR Remote LED Annunciator

The MR-2306-ATR provides eight points of LED annunciation and features bi-coloured LEDs which are auto-configurable for either Alarm (red) or Supervisory (amber). It has indicators for A.C. On, Common Trouble and Signal Silence and control switches for System Reset, Signal Silence, Lamp Test and Buzzer Silence. The MR-2306-ATR is equipped with a keyswitch which allows for enabling and disabling of the Common Control functions. The MR-2306-ATR is available in a red or white finish and mounts in a 4-gang electrical box.

RAX-1016TZDS Remote LED Annunciator

The RAM-1016TZDS Remote LED Annunciator provides 16 points of LED annunciation. The RAM-1016TZDS comes standard with bi-coloured LEDs which are automatically configured for either Alarm (Red) or Supervisory (Amber) and individual trouble LEDs. The RAM-1016TZDS 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. In addition it allows for the control switches to be disabled on a per function basis. The RAM-1016TZDS mounts in a MMX-BB-1001R enclosure.

Ordering Information

Model	Description
Control Panels	
MR-2320-R	Pre-Action/Deluge/Agent Releasing Panel
Remote Annunciators and Modules	
MR-2306-ATR	Eight zone Remote LED Annunciator
RAM-1016TZDS	Sixteen zone Remote LED Annunciator with individual Trouble LEDs
MR-2312-SR12	Smart Relay Module
MMX-BB-1001R	Enclosure for RAM-1016TZDS
Adder Modules	
MR-2300-A	Six Input Circuit Class “A” Converter Module
MR-2300-NC4	Four Output Circuit Class “A” Converter Module
MR-2306-R6	Six Relay Circuit Adder Module
Accessories	
MR-2306-FT	Black Semi-Flush Trim Ring for MR-2320 enclosures
CFG-300	Configuration Tool (Required for programming)
MP-1500R	Current Limiter Module (Red Plate)
MP-320R	Solenoid End of Line Module (Red Plate)