



Description

Mircom's FR-320 is a dual releasing control unit that is field configurable for use on Deluge Sprinkler Systems, Pre-action Sprinkler Systems and Agent Release Systems.

The FR-320 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 FR-320. The relays can be configured for both single and dual hazard applications.

The FR-320 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 FR-320 comes complete with a red (FR-320-R) door, black enclosure, durable CAT-30 lock and key and space to mount up to 12 AH batteries.

Features

- Listed to UL 864, 10th Edition and ULC-S527, 4th 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 ICAC-306 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 OCAC-304 Converter Module
- 5 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



NYC
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Optional Modules

ICAC-306 Input Circuit Class “A” Converter Module

The ICAC-306 converts six Class “B” (Style “B”) input circuits on the FR-320 to Class “A” (Style “D”) circuits. The ICAC-306 is equipped with wire leads to connect to the FR-320 main board.

OCAC-304 Output Circuit Class “A” Converter Module

The OCAC-304 converts four Class “B” (Style “Y”) output circuits on the FR-320 to Class “A” (Style “Z”) circuits. The OCAC-304 is equipped with wire leads to connect to the FR-320 main board.

RM-306 Relay Circuit Adder Module

The RM-306 provides six configurable relay circuits, rated @ 28 VDC, 1 amp (resistive). The RM-306 can be configured for single or dual hazard applications.

SRM-312 Smart Relay Module

The SRM-312 provides the same features as the RM-306 module. The SRM-312 provides twelve configurable relay circuits, rated @ 28 VDC, 1 amp (resistive). The SRM-312 comes with a red enclosure and is mounted remotely from the panel on an RS-485 connection.

Remote Annunciators

RAM-216R Remote LED Annunciator

The RAM-216R provides 16 points respectively of LED annunciation and features bi-coloured LEDs which are auto-configurable for either Alarm (red) or Supervisory (amber). The LED annunciators have indicators for A.C. On, Common Trouble and Signal Silence and control switches for System Reset, Signal Silence, Lamp Test and Buzzer Silence. The RAM-216R is equipped with a keyswitch which allows for enabling and disabling of the Common Control functions and is available in a red finish and mount in a 4-gang electrical box.

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 the one display position in the BB-1001D, BB-1001DR, BB-1001DB and BB-1001DS enclosures.

Ordering Information

Model	Description
Releasing Control Unit	
FR-320-R	Pre-Action/Deluge/Agent Releasing Control Unit c/w red door and black backbox. Dimensions (minus built-in trim ring): 26”H x 14.5”W x 4.2”D
Remote Annunciators and Modules	
RAM-216R	Remote Multiplex Annunciator with 16 Bi-Colored LEDs (Red)
RAM-1032TZDS	Main Remote LED Annunciator c/w 32 Bi-Colored LEDs
SRM-312R	Smart Relay Module (Red enclosure)
BB-1001D	Remote enclosure for one RAM-1032TZDS module, white door
BB-1001DR	Remote enclosure for one RAM-1032TZDS module, red door
BB-1001DB	Remote enclosure for one RAM-1032TZDS module, black door
BB-1001DS	Remote enclosure for one RAM-1032TZDS module, stainless finish door
Adder Modules	
ICAC-306	Six Input Circuit Class “A” Converter Module
OCAC-304	Four Output Circuit Class “A” Converter Module
RM-306	Six Relay Circuit Adder Module
RM-312	Twelve Relay Circuit Adder Module
Accessories	
CFG-300	Configuration Tool (Required for programming)
MP-320R	Solenoid End-Of-Line Module (Red Plate)



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