



FX-3318

Description

Mircom's FX-3318 Addressable Fire Alarm Control Panel is an intelligent addressable multi-zoned panel with exceptional value while not compromising the Mircom features needed to satisfy small to medium jobs.

The FX-3318 is shipped pre-assembled with all main components including: main board, power supply, transformer, and main display in a red enclosure.

A built-in dialer is included to communicate panel status to the remote central monitoring station using 2 dedicated phone lines. Both SIA and Contact ID are supported

Up to 7 annunciators can be added with enclosure options in red, white or NEW stainless steel.

It has one built in signaling line circuit (SLC). With Mircom's Advanced Protocol (AP) a superior group polling method as well as an interrupt feature, allows a faster response to an alarm. The AP or Advanced Protocol allows for greater system capacity with support for up to 318 devices in AP mode and offers legacy CLIP support of up to 198 devices.

FX-3318 has four Power Limited Class B (Style Y) or Class A (Style Z) NAC circuits.

- NAC circuits may be configured as silenceable signal, non-silenceable signal, silenceable strobes, non-silenceable strobes, or relay output. The audible signal may be Steady, Temporal Code, California Code, or March Time. Sync strobe protocols are supported from major manufacturers.

The built-in trim ring accommodates both retrofits and new installs reducing time with semi-flush or surface mountable options.

The panel is UL, 9th edition listed and has COA and CSFM listings.

Features

- One onboard SLC communication circuit
- Supports up to 318 intelligent devices in AP mode
- Legacy Clip support of up to 198 devices
- Built-in Dialer Module for remote monitoring
- 4 x 20 LCD with 80 characters
- Supports up to 7 annunciators
- Optional City Tie/Polarity Reversal module for central station monitoring & field installable
- Four Power Limited Class B (Style Y) or Class A (Style Z) NAC circuits (max 1.5 Amps each – 5.0 amps total).
- Auxiliary power is available in the form of 24V FWR unfiltered and unsupervised, 24VDC filtered and regulated, and resettable auxiliary power supply.
- Positive Alarm Sequence (PAS)- provides an alarm delay of up to 180 seconds if an alarm is acknowledge at the control panel within 15 seconds. This action provides the responding personnel time to investigate an alarm before evacuating a building.
- Supports sync strobe protocols from major manufacturers.
- Two-stage, alarm verification, waterflow retard and positive alarm sequence operations.
- Configurable Signal Silence Inhibit, Auto Signal Silence, and One-Man Walk Test.



9th edition
UL 864



7165-1477:503

NYC
Fire Dept.

COA# 6288

User Interfaces

Indication and Controls:

- 12 control buttons with associated LEDs
- 16 button Numeric Keypad with cursor buttons

LCD Display:

The display is a four line, 4 x 20 80 character back-lit alphanumeric LCD.

It displays information regarding the panel, its circuits, and devices. Report information provided by the LCD display includes:

- Alarm Log
- Event Log
- Current Levels
- Device Information
- Verification and Maintenance Reports

BATTERIES:

BAT-12V12A (12 AH) and BAT-12V18A (18 AH) will fit into the FX-3318 enclosure. To house BAT-12V26A (26 AH) batteries a BC-160/R Battery Cabinet is required. Use of alternative batteries may result in failure of the panel to meet agency and regulatory requirements and may result in shortened battery life. Batteries should be tested regularly and replaced at least every three years.

ADVANCED PROTOCOL AND CLIP DEVICES

- Maximum Loop Current = 350mA
- Maximum Loop Resistance = 40 ohms
- Maximum Loop Capacitance = 0.5uF
- Maximum number of isolators = 20

Agency Listings and Approvals:

UL-864 Rev 9, NFPA 70, 72, CSFM and COA

Compatible Receivers:

The FX-3318 is compatible with the following Digital Alarm Communicator Receivers:

DACR Receiver	Model Protocols
SurGard MLR2 Multi-Line Receiver (ULI approved)	SIA Format Protocol and SIA Contact ID
SurGard SLR Single-Line Receiver (ULI approved)	SIA Format Protocol and SIA Contact ID
Osborne-Hoffman Quickalert! II Receiver (ULI approved)	SIA Format Protocol and SIA Contact ID
Osborne-Hoffman OH-2000 Receiver (ULI approved)	SIA Format Protocol and SIA Contact ID
Silent Knight Model 9500 Receiver (ULI approved)	SIA Format Protocol and SIA Contact ID
Radionics Model D6500 Receiver (ULI approved)	SIA Format Protocol and SIA Contact ID
Radionics Model D6600 Receiver (ULI approved)	SIA Format Protocol and SIA Contact ID
DSC SurGard System III Receiver (ULI approved)*	SIA Contact ID
DSC SurGard System IV Receiver (ULI approved)*	SIA Contact ID

* Please refer to manual

System Specifications:

System Capacity	
Intelligent Signaling Line Circuits	1
Addressable device capacity	318
Programmable Software Zones	99
ACS Annunciators	32
ANN-Bus Devices	16

Electrical Specifications:

AC Power: 120 VAC, 60Hz /240 VAC, 50 Hz. Wire size: minimum 14 AWG (2.08mm²) with 600v insulation. Fire alarm systems must be installed in compliance with local codes and standards and with the Authority Having Jurisdiction (AHJ).

Auxiliary Power: Auxiliary power is available in the form of 24V FWR unfiltered and unsupervised, 24VDC filtered and regulated, and resettable auxiliary power supply.

Power Supply Rating: 29VAC 6A (secondary of transformer), 120 VAC 60Hz 1.6 Amp (maximum primary of transformer). 240 VAC 50 Hz 0.9 Amp (maximum primary of transformer). Total load not to exceed 5A @ 24VDC.

Battery Charger Capacity: 10AH – 24AH charging capability. Charging current 1.575A maximum. Protection 10A on-board slow micro fuse (not field replaceable). Stand-by current rating at full load 0.7A.

Communication Loop: Supervised and power-limited.

Notification Appliance Circuits: Refer to manual for all details.

Power Limited NAC circuits (max 1.5 Amps each - 5.0 Amps total) if no auxiliary power is used.

Strobe/Horn circuits with multiple strobes/horns in one open area, needs to be synchronized.

Electrical Specifications cont'd:

TOTAL SIGNAL LOAD	MAXIMUM WIRING RUN TO LAST DEVICE (ELR)								MAX Loop Resistance
	18AWG		16AWG		14AWG		12AWG		
Amperes	ft	m	ft	m	ft	m	ft	m	Ohms
0.06	2350	416	3750	1143	6000	1929	8500	2591	30
0.12	1180	360	1850	567	3000	915	4250	1296	15
0.30	470	143	750	229	1200	366	1900	579	6
0.60	235	71	375	114	600	183	850	259	3
0.90	156	47	250	76	400	122	570	174	2
1.20	118	36	185	56	300	91	425	129	1.5
1.50	94	29	150	46	240	73	343	105	1.2

Addressable Loops & Device Wiring

Advanced protocol mode with one loop with 159 addressable sensors and 159 addressable modules per loop. CLIP mode with one loop with 99 addressable sensors and 99 addressable modules per loop. The addressable loop may be configured as Class A or Class B operation. Maximum loop resistance depends on number of devices and device type. Power Limited / 22VDC / 350mA alarm maximum / 0.5 μ F Power Limited / 22VDC / 280mA normal standby maximum / 0.5 μ F .

Cabinet Specifications

Dimensions of Enclosure (minus built-in trim ring)	14.5" W x 4.25" D x 21" L
Complete Dimensions of Enclosures	16.7" W x 5.78" D x 23" L

Suitable for Flush or surface mounting with a built in trim ring.

Temperature and Humidity Ranges

Operating Temperature	32°F to 120°F (0°C to 49°C)
Humidity	0 to 93% relative humidity (non-condensing)

Ordering Information

Model	Description
Panel	
FX-3318	Black backbox and red door enclosure. Comes complete with main board, power supply, transformer and main display
Annunciators	
RAM-3318-LCD	Remote Annunciator with 4-line LCD display
RAX-LCD-LITE	Remote Annunciator with 4-Line LCD display
SRM-312R	Smart Relay module with red enclosure. Can support up to 12 relays
RAM-1016TZDS	16 Point remote annunciator chassis with 16 trouble LED's.
RAM-1032TZDS	32 Point Remote Annunciator with 32 Trouble LED's
MGD-32	Graphic Annunciator
AGD-048	Graphic Annunciator Adder Driver board
Optional Adder Modules	
PR-300	Polarity reversal and city tie module
PCS-100	Power Supply interface board. Use for powering 3G4010 and 3G4010CF universal wireless alarm communicator.
Enclosures for Remote Annunciators	
BB-1001D	Annunciator Enclosure - Houses 1 module (White)
BB-1001DR	Annunciator Enclosure - Houses 1 module (Red)
BB-1001DS	Annunciator Enclosure - Houses 1 module (Stainless Steel)
BB-1002D	Annunciator Enclosure - Houses 2 modules (White)
BB-1002DR	Annunciator Enclosure - Houses 2 modules (Red)
BB-1002DS	Annunciator Enclosure - Houses 2 modules (Stainless Steel)
BB-1003D	Annunciator Enclosure - Houses 3 modules (White)
BB-1003DR	Annunciator Enclosure - Houses 3 modules (Red)
BB-1003DS	Annunciator Enclosure - Houses 3 modules (Stainless Steel)
Other	
MP-300	End of Line resistor plate. 3K9.
BC-160R	External Battery, red cabinet
BAT-12V12A	Battery 12AH
BAT-12V18A	Battery 18AH
BAT-12V26A	Battery 26AH
RT1	Common, remote trouble indicator, buzzer and LED

Note: *Please see manual for list of compatible devices



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