



Fire-LITE[®] Alarms
INCORPORATED

July 7, 1998

A2-400

MRP-4424(C/E) Agent Release Control Panel

Section: Conventional

GENERAL

The **MRP-4424(C/E)** is a 24-volt, Agent Release Control Panel. Compact and cost-effective, the MRP-4424 is powerful, offering a variety of options designed to meet most low-end releasing applications.

FEATURES

- Two Style B/D (Class B/A) Initiating Device Circuits (IDCs).
- Manual release input, Style B/D (Class B/A).
- Abort switch input, Style B/D (Class B/A).
- Supervisory input option, Style B (Class B) (dipswitch selectable).
- Two Style Y/Z (Class B/A) Notification Appliance Circuits (NACs).
- Two Release Circuits, Style Y (Class B).
- Cross-zone option (dipswitch selectable).
- Delay timer: 0, 10, 20, or 30 seconds (dipswitch selectable).
- Dual hazard operation; single hazard if release circuit #2 is used for Supervisory input (dipswitch selectable).
- Special abort options for IRI, New York City, and other local jurisdictions (dipswitch selectable).
- Distinct audible indications for: one zone in alarm; two zones in alarm; release.
- Output circuits protected against false activations by two-step command sequence.
- 2.25 amps of notification appliance power.
- 24-volt operation.
- 220/240 VAC model (MRP-4424E) available.
- Alarm and trouble, Form-C relays, standard.
- Resettable four-wire smoke detector power @ 200 mA.
- Non-resettable power @ 200 mA (subtract from available four-wire smoke power).
- Non-regulated power @ 500 mA (subtract from 2.25 amps of NAC power).
- Meets the requirements of:
 - NFPA 72 – 1993 Edition**, Local, Auxiliary, Remote Station, Proprietary Fire Alarm Systems, and Central Station Signaling Systems.
 - NFPA 12**, CO₂ (high pressure only) Extinguishing Systems.
 - NFPA 12A**, Halon 1301 Extinguishing Systems.
 - NFPA 12B**, Halon 1211 Extinguishing Systems.
- Integral battery charger capable of charging up to 15.0 AH batteries.
- Fuseless, power-limited technology meets new UL power-limiting requirements, effective May 1, 1995, on all circuits (excludes optional municipal box output).



S624
(MRP-4424,
MRP-4424E)



CS68/CS702
(MRP-4424C)



California
State Fire
Marshal
7165-0075:161
(MRP-4424)



OV1A8.AY
(MRP-4424)

MEA

420-91-E
(MRP-4424)



MRP-4424

- Last Event Recall feature traps unverified alarms or intermittent troubles.
- Disable/Enable control per IDC and NAC.
- Alarm and trouble resound.
- Battery/Earth fault supervision.
- Extensive transient protection.
- Electronics and operational controls fully enclosed in lockable cabinet capable of housing up to 12.0 AH batteries.
- Slide-in labels for zone identification.
- Optional **4XZMF** module for four-zone/function relays.
- Local energy or remote station connection with optional **4XTMF** module.
- Optional **RZA-4XF** remote annunciator mounts to single-gang box and requires **4XLMF** LED driver module.
- Volt/amp meter capability with optional **4XMMF** module.
- **DP-4XF** dead-front dress panel option (included with ULC Canadian product).
- Optional **TR-4XRF** trim ring for semi-flush mounting between 16" center studs.

This document is not intended to be used for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information, contact Fire-Lite. Phone: (203) 484-7161 FAX: (203) 484-7118



12 Clintonville Road, Northford, Connecticut 06472

ISO-9001
Engineering and Manufacturing
Quality System Certified to
International Standard ISO-9001



Made in the U.S.A.

SPECIFICATIONS

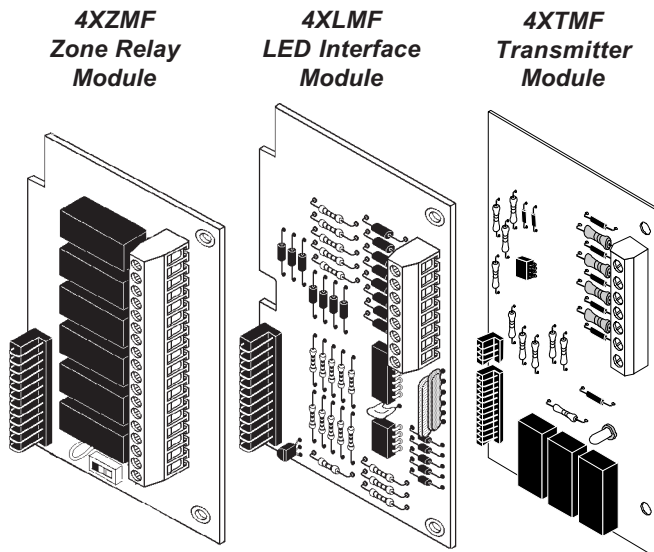
- Primary input power: 120 VAC, 60 Hz, 1.2 amps. 220/240 VAC model (MRP-4424E) available.
 - Wire size: minimum 14 AWG with 600 V insulation.
 - Total 24 V system power: 2.45 amps.
 - Standard notification appliance circuits: 2 (Style Y/Z).
 - Release circuits: 2 (Style Y).
 - Notification appliance power: 2.25 amps.
 - Maximum current per NAC: **1.5 amps**.
 - Resettable four-wire smoke detector power @ 200 mA.*
 - Non-resettable power @ 200 mA (subtract from four-wire smoke power).
 - Non-regulated power @ 500 mA.*
- *NOTE:** Subtract from total 24 V system power.
- Battery charger range: 7 AH - 15 AH.
 - Charger float rate: 27.6 V, 1.5 amps.
 - Control panel alarm and trouble relay contact ratings:
2.0 amps @ 30 VDC (resistive).
0.5 amps @ 30 VAC (resistive).

INITIATING DEVICE CIRCUITS (zones)

- Two Style B/D (Class B/A).
- End-of-Line Resistor:
MRP-4424(C) — 4.7K, 1/2-watt (#71252, UL listed).
- All circuits are fully power-limited and supervised, meeting the latest UL power-limiting requirements, effective May 1, 1995, using fuseless technology.
- Maximum loop resistance: MRP-4424 200 ohms.

NOTIFICATION APPLIANCE/ RELEASING CIRCUITS

- Two Style Y/Z (Class B/A) NACs @ 1.5 amps each.
- Two Style Y (Class B) Releasing only.
- End-of-Line Resistor:
MRP-4424(C) — 4.7K, 1/2-watt (#71252 UL listed).
- All circuits are fully power-limited and supervised, meeting the latest UL power-limiting requirements, effective May 1, 1995, using fuseless technology.
- Maximum allowable voltage drop due to wiring: 2 VDC.



AUXILIARY OUTPUTS

- Resettable four-wire smoke detector power @ 200 mA.
 - Non-resettable power @ 200 mA (subtract from 4-wire smoke power).
- NOTE:** Use of above auxiliary power outputs does not de-rate available 2.25 amps of NAC power.
- Non-regulated power @ 500 mA (subtract from 2.25 amps of NAC power).
 - Integral Form-C alarm and trouble relays.

CABINET SPECIFICATIONS

Door: 16.125" (409.575 mm) high x 14.625" (371.475 mm) wide x 0.675" (17.145 mm) deep.

Backbox: 16.0" (406.40 mm) high x 14.5" (368.30 mm) wide x 4.75" (120.65 mm) deep.

PRODUCT LINE INFORMATION

- MRP-4424** Agent Release Control Panel.
- MRP-4424C** Same as above with ULC listing and DP-4XF dead-front panel.
- MRP-4424E** Same as MRP-4424 with 220/240 VAC.
- RZA-4XF** Remote annunciator (*requires 4XLMF*). Mounts on single-gang box and provides: System Trouble LED (Y); Notification Circuit 1 LED (R); Notification Circuit 2 LED (R); Releasing Circuit 1 LED (R); Releasing Circuit 2 LED (R); and local piezo sounder with Silence switch.
- 4XLMF** Remote annunciator driver for RZA-4XF. Occupies one of the two option connectors.
- 4XTMF** Remote station output or municipal box connection. Occupies one of the two option connectors.
- 4XZMF** Relay module, provides Form-C general alarm/trouble contacts and the following Form-C relays: one detector in Alarm; two detectors in Alarm; Releasing Circuit 1 activated; and Releasing Circuit 2 activated. Occupies one of the two option connectors.
- 4XMMF** Volt/amp meter module. Voltmeter measures voltage across the batteries, and ammeter measures the charging current to the batteries.
- 2ZDS** 2-zone Disconnect Switch — provides mechanical zone disconnect.
- RP-3.3K** Reverse Polarity Kit — required for City of Chicago applications.
- DP-4XF** Full-length internal Dead-front Panel (*included with "C" suffix model*).
- TR-4XRF** Trim Ring — semi-flush mounting.
- PS-1270** 7 AH, 12 V gell cell battery.
- PS-12120** 12 AH, 12 V gell cell battery.