



**Fire-LITE® Alarms**  
INCORPORATED

October 1, 1997

A2-300

## MicroScan-4424(C/E)

**4-Zone, Class A,  
Fire Alarm Control Panel**

Section: Conventional

### GENERAL

The **MicroScan-4424** is a 24-volt, four-zone, Class A Fire Alarm Control Panel. Compact and cost-effective, the 4XA Series panels are powerful, offering a variety of options designed to meet almost any low-end application, including: NFPA 72-1993 Edition — Local, Auxiliary, Remote Station and Proprietary Fire Alarm Systems.



S624



CS68



California  
State Fire  
Marshal

7165-0075:115

**MEA**

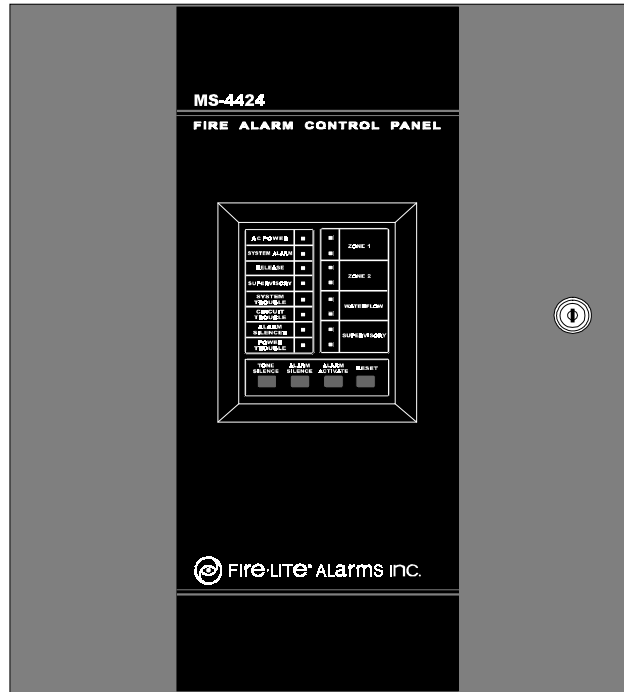
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### FEATURES

- Four Style D (Class A) Initiating Device Circuits (IDCs).
  - Zones 1 & 2: General Alarm Operation.
  - Zone 3: General Alarm or Waterflow Operation.
  - Zone 4: General Alarm or Supervisory Operation.
- Two Style Y/Z (Class B/D) Notification Appliance Circuits (NACs).
- Two Style Y (Class B) only NACs.
- Programmable ring-by-zone option.
- 2.25 amps of notification appliance power.
- 24-volt operation.
- 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, and Proprietary Fire Alarm 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).
- Programmable Alarm Verification with discrimination between smoke detectors and contact devices.
- Last Event Recall feature traps unverified alarms or intermittent troubles.
- One-man Walk Test feature with zone change indication and zone trouble indication.
- Disable/Enable control per IDC and NAC.
- Alarm and trouble resound.
- Programmable Silence Inhibit capability.
- 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.



**MS-4424**

- Slide-in labels for zone identification.
- Relay-by-zone capability with optional **4XZMF** module.
- 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-4XF** trim ring for semi-flush mounting between 16" center studs.
- 220/240 VAC, 50/60 Hz international option.

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, 50/60 Hz, 0.6 amps ("E" suffix).
- 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); 2 (Style Y) only.
- 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)

- Four Style D (Class A).
- End-of-Line Resistor:  
MS-4424 — 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: MS-4424 200 ohms.

## NOTIFICATION APPLIANCE CIRCUITS

- Two Style Y/Z (Class B/A) @ 1.5 amps each.
- Two Style Y (Class B) only.
- End-of-Line Resistor:  
MS-4424 — 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

- MS-4424** 4-zone, Class A, 24 VDC FACP.
- MS-4424C** Same as above with ULC listing and DP-4XF dead-front panel.
- MS-4424E** Same as MS-4424 with 220/240 VAC, 50/60 Hz transformer (UL listed).
- RZA-4XF** Remote zone annunciator (requires 4XLMF).
- 4XLMF** Remote annunciator driver for RZA-4XF.
- 4XTMF** Remote station output or municipal box connection.
- 4XZMF** Relay module, 4 relays-by-zone, alarm/trouble contacts.
- 4XMMF** Volt/amp meter module.
- 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.

**4XZMF**  
Zone Relay  
Module

**4XLMF**  
LED Interface  
Module

**4XTMF**  
Transmitter  
Module

