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DF-51069 A2-300

# MicroScan-4424(C/E)

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

Section: Conventional

### GENERALS

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/CS702



California  
State Fire  
Marshal  
7165-0075:161



APPROVED

### FEATURES

#### Initiating Device Circuits (IDC's)

- Four Style D (Class A).
  - Zones 1 & 2: General Alarm Operation.
  - Zone 3: General Alarm or Waterflow Operation.
  - Zone 4: General Alarm or Supervisory Operation.
- Disable/Enable control per IDC.
- End-of-Line Resistor:  
MS-4424 - 4.7K, 1/2-watt (#71252, UL listed).
- Maximum loop resistance: MS-4424 200 ohms.

#### Notification Appliance Circuits (NAC's)

- Two Style Y/Z (Class B/A) @ 1.5 amps each.
- Two Style Y (Class B) only.
- Disable/Enable control per NAC.
- Alarm and trouble resound.
- Programmable Silence Inhibit capability.
- End-of-Line Resistor:  
MS-4424 - 4.7K, 1/2-watt (#71252 UL listed).
- Maximum allowable voltage drop due to wiring: 2 VDC.
- 2.25 amps of notification appliance power.

#### Auxiliary Outputs

- Resettable four-wire smoke detector power @ 200 mA.
- Non-resettable power @ 200 mA (subtract from four-wire smoke power).

**NOTE:** Use of above auxiliary power outputs does not de-rate available 2.25 amps of NAC power.

- Integral Form-C alarm and trouble relays.

#### Programming and Software

- Programmable Alarm Verification with discrimination between smoke detectors and contact devices.
- Last Event Recall feature traps unverified alarms or intermittent troubles.
- Programmable ring-by-zone option.
- One-man Walk Test feature with zone change indication and zone trouble indication.



**MS-4424**

#### Power and Batteries

- Fuseless, power-limited technology meets UL power-limiting requirements, effective May 1, 1995, on all circuits (excludes optional municipal box output).
- Integral battery charger capable of charging up to 15.0 AH batteries.
- Battery/earth fault supervision.

#### Other System Features

- Meets the requirements of NFPA 72 - 1993 Edition (Local, Auxiliary, Remote Station, and Proprietary Fire Alarm Systems).
- Extensive transient protection.

Fire-Lite® Alarms is a Honeywell company.

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 Alarms, One Fire-Lite Place, Northford, Connecticut 06472. Phone: (800) 627-3473, Toll-Free FAX: (877) 699-4105.

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## Mechanicals

- Electronics and operational controls fully enclosed in lockable cabinet capable of housing up to 12.0 AH batteries.
- **DP-4XF** dead-front dress panel option (included with ULC Canadian product).
- Optional **TR-4XRF** trim ring for semi-flush mounting between 16" (40.64 cm) center studs.
- Slide-in labels for zone identification.

## Options

- 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.
- 220/240 VAC, 50/60 Hz international option.

## CONTROLS AND INDICATORS

### Membrane Switch Controls

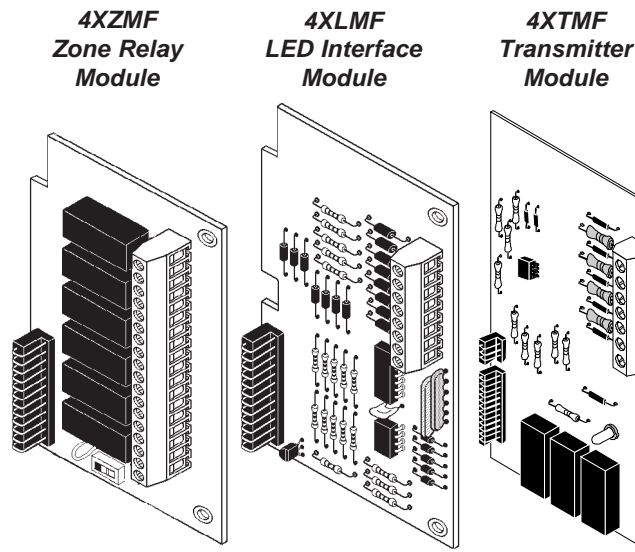
- "A.C. POWER".
- "SYSTEM ALARM".
- "RELEASE".
- "SUPERVISORY".
- "SYSTEM TROUBLE".
- "CIRCUIT TROUBLE".
- "ALARM SILENCED".
- "POWER TROUBLE".

### LED Indicators

- "Tone Silence" to silence tone.
- "Alarm Silence" to silence alarm.
- "Alarm Activate" to sound alarm.
- "Reset" for control and detectors.

## 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 (subtract from total 24 V system power).
- **Non-resettable power:** @ 200 mA (subtract from four-wire smoke 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).

## 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.
- BAT-1270** 7 AH, 12 V gell cell battery.
- BAT-12120** 12 AH, 12 V gell cell battery.
- MS-4424BCRB** Replacement board.