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MS-4412B & 4424B(C/E)

4-Zone, Class B, Fire Alarm Control Panels

Section: Conventional

GENERAL

The **MicroScan-4412B** and **4424B** are 12-volt and 24-volt, four-zone, Class B Fire Alarm Control Panels. Compact and cost-effective, the 4XB Series panels are powerful, offering a variety of options designed to meet almost any low-end application, including: Local, Auxiliary, Remote Station and Proprietary Fire Alarm Systems.







California State Fire Marshal 7165-0075:161 (MS-4424B) 7165-0075:163

(MS-4412B)

MEA

FEATURES

Initiating Device Circuits (IDC's)

- Four Style B (Class B).
 - 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-4412B - 2.2K, 1/2-watt (#R-2.2K, UL listed). MS-4424B - 4.7K, 1/2-watt (#71252, UL listed).

• Maximum loop resistance: MS-4412B 100 ohms. MS-4424B 200 ohms.

Notification Appliance Circuits (NAC's)

- Two Style Y (Class B) @ 1.5 amps each.
- · Disable/Enable control per NAC.
- Alarm and trouble resound.
- Programmable Silence Inhibit capability.
- End-of-Line Resistor:
 MS-4412B 2.2K, 1/2-watt (#R-2.2K UL listed).
 MS-4424B 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.
- One-man Walk Test feature with zone change indication and zone trouble indication.

Power and Batteries

Fuseless, power-limited technology meets UL power-limiting requirements, effective May 1, 1995, on all circuits (excludes optional municipal box output).



MS-4424B

- Integral battery charger capable of charging up to 15.0 AH batteries (batteries larger than 7.0 AH require use of BB-17F battery box).
- · Battery/earth fault supervision.

Other System Features

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

Mechanicals

- Electronics and operational controls fully enclosed in lockable cabinet capable of housing up to 7.0 AH batteries.
- DP-4424B dead-front dress panel option (included with ULC Canadian product).
- Optional TR-2-R trim ring for semi-flush mounting between 16" (40.64 cm) center studs.
- · Slide-in labels for zone identification.

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.





Options

- Relay-by-zone capability with optional 4412ZM (12 V) or 4XZMF (24 V) modules.
- Local energy or remote station connection with optional 4412TM (12 V) or 4XTMF (24 V) modules.
- Optional RZA-4XF remote annunciator mounts to singlegang box and requires 4412LM (12 V) or 4XLMF (24 V) LED driver modules.

CONTROLS AND INDICATORS

Membrane Switch Controls

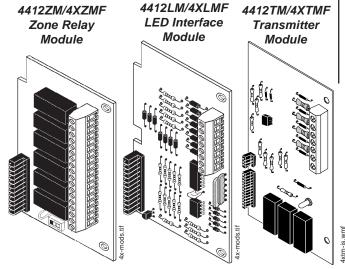
- "A.C. POWER".
- "SYSTEM ALARM".
- · "RELEASE".
- · "SUPERVISORY".
- · "SYSTEM TROUBLE".
- "CIRCUIT TROUBLE".
- "ALARM SILENCED".
- "POWER TROUBLE".

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: MS-4412B, MS-4424B(C): 120
 VAC, 60 Hz, 1.2 A; MS-4424BE: 230 VAC, 50 Hz, 0.6 A (optional).
- Wire size: minimum 14 AWG (2.00 mm²) with 600 V insulation.
- Total 24 V system power: 2.45 amps.
- Standard notification appliance 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 (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 (BB-17F battery cabinet for 12 AH batteries).
- Charger float rate: MS-4412B 13.8 V, 1.5 amps. MS-4424B 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: 14.218" (36.113 cm) high x 14.718" (37.383 cm) wide x 0.675" (1.714 cm) deep.

Backbox: 14.0" (35.56 cm) high x 14.5" (36.83) wide x 3.0" (7.62 cm) deep.

PRODUCT LINE INFORMATION

MS-4412B Four-zone, Class B, 12 VDC FACP.

MS-4424B Four-zone, Class B, 24 VDC FACP.

MS-4424BC Same as above with ULC listing and

DP-4424B dead-front panel.

MS-4424BE Same as MS-4424B with 230 VAC, 50 Hz

transformer (UL listed).

RZA-4XF Remote zone annunciator (requires

4412LM or 4XLMF).

4412LM Remote annunciator driver for RZA-4XF (for

4412B).

4XLMF Remote annunciator driver for RZA-4XF (for

4424B).

4412TM Remote station output or municipal box

connection (for 4412B).

4XTMF Remote station output or municipal box

connection (for 4424B).

4412ZM Relay module, four relays-by-zone, alarm/

trouble contacts (for 4412B).

4XZMF Relay module, four relays-by-zone, alarm/

trouble contacts (for 4424B).

2ZDS Two-zone Disconnect Switch — provides

mechanical zone disconnect.

RP-3.3K Reverse Polarity Kit — required for City of

Chicago applications.

DP-4424B Full-length internal Dead-front Panel (in-

cluded with "C" suffix models).

TR-2-R Trim Ring — semi-flush mounting.

BB-17F Battery Box, required to mount PS-12120

batteries.

BAT-1270 7 AH, 12 V gell cell battery.

BAT-12120 12 AH, 12 V gell cell battery (requires use

of Fire•Lite BB-17F battery box).4x-

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One-man Walk Test feature with zone change indication and zone trouble indica-

tion.

MS-4412BRB Replacement board for MS-4412B (US).

MS-4412BCRBReplacement board for MS-4412BC

(Canada).

MS-4424BCRB Replacement board for (US and Canadian) panels MS-4424B and MS-4424BC.