February 12, 1997

A2-200

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

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.





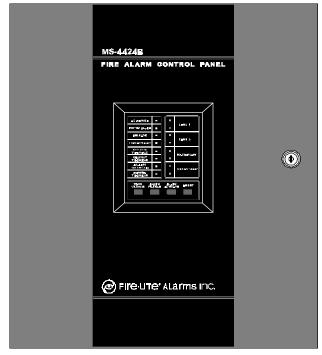
California State Fire Marshal 7165-0075:161 (MS-4424B) 7165-0075:163 (MS-4412B)

S624 CS68/CS7 (4424B)

MEA421-91-E

FEATURES

- Four Style B (Class B) 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 (Class B) Notification Appliance Circuits (NACs).
- · 2.25 amps of notification appliance power.
- · 12- or 24-volt models.
- · 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 (batteries larger than 7.0 AH require use of BB-17F battery box).
- 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 7.0 AH batteries.



MS-4424B

- · Slide-in labels for zone identification.
- 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.
- DP-4424B dead-front dress panel option (included with ULC Canadian product).
- Optional TR-2-R 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



SPECIFICATIONS

- Primary input power: 120 VAC, 60 Hz, 1.2 amps.
- Wire size: minimum 14 AWG 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.*
- 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 (BB-17F battery cabinet for 12 AH batteries).
- MS-4412B 13.8 V, 1.5 amps. Charger float rate: 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).

INITIATING DEVICE CIRCUITS (zones)

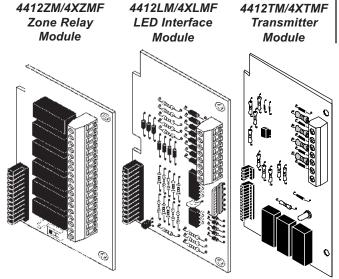
- Four Style B (Class B).
- · End-of-Line Resistor: MS-4412B — 2.2K, 1/2-watt (#R-2.2K, UL listed). MS-4424B — 4.7K, 1/2-watt (#71252, UL listed).
- · All circuits are fully power-limited and supervised, meeting the latest UL power-limiting requirements, effective May 1, 1995, using fuseless technology.
- Maximum loop resistance: MS-4412B 100 ohms. MS-4424B 200 ohms.

NOTIFICATION APPLIANCE CIRCUITS

- Four Style Y (Class B) @ 1.5 amps each.
- · 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).

- · 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: 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	4-zone, Class B, 12 VDC FACP.
MS 4412BC	Same as above with LILC listing

Same as above with ULC listing and DP-MS-4412BC

4424B dead-front panel.

MS-4424B 4-zone, Class B, 24 VDC FACP.

MS-4424BC Same as above with ULC listing and DP-

4424B dead-front panel.

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).

4412ZMF Relay module, 4 relays-by-zone, alarm/

trouble contacts (for 4412B).

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

trouble contacts (for 4424B).

2ZDS 2-zone Disconnect Switch - provides me-

chanical 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).

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

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

batteries.

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

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

of Fire Lite BB-17F battery box).