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# MicroScan-2410B

## 10-Zone, Class B

### Fire Alarm Control Panel

Section: Conventional

## GENERAL

The **MicroScan-2410B** is a 24-volt, ten-zone, Style B (Class B), Conventional Fire Alarm Control Panel. Designed exclusively to meet the latest fire alarm market requirements, the highly cost-effective MS-2410B can be used in a variety of low- to mid-sized applications, including: Local, Auxiliary, Remote Station, and Proprietary Fire Alarm System. Provides supervised reverse polarity protection when using a 4XTMF Transmitter Module.

## FEATURES

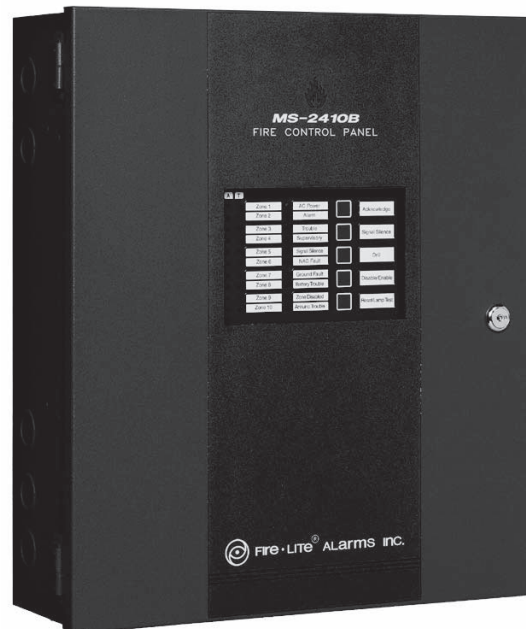
- Ten Style B (Class B) Initiating Device Circuits (IDCs).
  - Zones 1 - 10 accept two-wire smoke detectors and any normally-open contact devices.
  - Zones 1 - 8 configured as general alarm zones.
  - Zones 9 and 10 programmable as smoke zones or supervisory alarm zones.
- Two built-in, Style Y (Class B) Notification Appliance (Bell) Circuits (NACs).
- NACs may be programmed:
  - Silenceable.
  - Non-Silenceable.
  - Auto-Silence (program 5 to 20 minutes).
- 2.5 amps of NAC power, expandable to 5.0 amps.
- 3.6 amps of total system power expandable to 6.6 amps.
- 24 VDC operation.
- **Supervised reverse polarity protection** (using 4XTMF).
- Resettable four-wire smoke detector power @ 300 mA.
- Non-resettable power @ 500 mA.
- Integral battery charger capable of charging up to 18 AH batteries (batteries over 12 AH require use of the Fire-Lite **BB-17F** battery backbox).
- Alarm, Trouble and Supervisory, Form-C relays standard.
- Fuseless, power-limited technology meets all the latest power-limiting requirements.
- Fully programmable via built-in keypad.
- Program mode password and cabinet security key prevent unauthorized access to ensure the integrity of the field program information.
- Programmable Alarm Verification (zones 1 through 3 with two-wire smoke detectors only).
- Last Event Recall feature traps unverified alarms or intermittent troubles.
- One-man walk-test programmable for silent or audible test.
- Disable/Enable control per IDC (zones).
- Programmable Trouble Reminder and Silence Inhibit capability.
- Slide-in labels for zone identification and programming options.
- Electronics and operational controls fully enclosed in lockable cabinet capable of housing up to 12 AH batteries.



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- Optional flush mount trim ring (TR-4-R).
- Optional dead-front dress panel (DP-2410B).
- RTB Remote Trouble Buzzer option.
- Optional **LED-10IM** interface module provides EIA-485, two-wire, serial output for:
  - Relay-by-zone capability with optional **ACM-8RF**.
  - Optional **LED-10 Series** Remote Fire Annunciators.
  - Optional **AFM Series** LED Annunciators.
  - **LDM Series** Graphic Annunciator Drivers.
- Local energy or remote station connection with optional 4XTMF transmitter module.

## SPECIFICATIONS

- 120 VAC, 60 Hz, 2.3 amps.
- **Wire size:** minimum 14 AWG (2.0 mm<sup>2</sup>) with 600-volt insulation.
- **Total 24 VDC system power:** 3.6 amps (expandable to 6.6 amps).
- **Notification appliance (bell) circuit (NAC) power:** 2.5 amps (expandable to 5.0 amps).
- **Maximum current per NAC:** 1.25 amps (expandable to 2.5 amps).

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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- **Maximum battery charging capability:** 18 AH.

### Initiating Device Circuits (zones)

- Ten Style B (Class B).
- Zones may be programmed for:
  - Two-wire smoke detectors and any normally open contact device.
  - Zones 1 - 8 configured as general alarm zones only.
  - Zones 9 and 10 can be configured as smoke zones or supervisory alarm zones.
- All circuits are power-limited and supervised, meeting the latest requirements using fuseless technology.

### Notification Appliance (Bell) Circuits (NACs)

- Two Style Y (Class B) @ 1.25 amps (expandable to 2.5 amps) each.
- NACs may be programmed:
  - Silenceable.
  - Non-Silenceable.
  - Auto-Silence (program 5 to 20 minutes).
- All circuits are power-limited and supervised, meeting the latest requirements using fuseless technology.

### Auxiliary Outputs

- Resettable four-wire smoke detector power @ 300 mA.
- Non-resettable power @ 500 mA.

**NOTE:** Total current for auxiliary power outputs and two NACs must not exceed 6.0 amps. Total system current in excess of 3.6 amps requires the optional XRM-24 transformer and 12 or 18 AH batteries.

- Integral Form-C Alarm, Trouble and Supervisory relays, rated at: 2.0 amps @ 30 VDC (resistive), 2.0 amps @ 30 VAC (resistive).

### EIA-485 Port, Compatible Devices

**LED-10IM:** EIA-485 Interface Module. Provides MS-2410B with EIA-485 output, capable of supporting up to 10 compatible EIA-485 devices.

**LED-10 Series:** LED-type fire annunciators capable of displaying Alarm (red) and Trouble (yellow) LEDs for all ten Initiating Device Circuits (IDCs).

**AFM Series:** LED-type fire annunciators capable of providing up to 16 zones of Alarm (red) annunciation and common system trouble LED. Mount to 4-gang electrical box *ONLY*.

**LDM Series:** Lamp Driver Module series for use with custom graphic annunciators.

**ACM-8RF:** Remote Form-C relay module. Provides eight mappable Form-C relays driven by EIA-485 for relay-by-zone capability (two minimum required for relay-by-zone). Each requires ABS-8RF for mounting.

**NOTE:** For more detailed information on **Compatible EIA-485 Devices** for use with the MS-2410B, please refer to the **LED-10, AFM/AFM-X, LDM or ACM-8RF** data sheets, document numbers DF-51500, DF-51465, DF-51384, and DF-51555 respectively.

### Cabinet Specifications

See diagrams below.

### PRODUCT LINE INFORMATION

**MS-2410B** 24-Volt, 10-zone, Class B, FACP.

**XRM-24** 120VAC, 100 VA transformer. Expands total system power from 3.6 amps to 6.6 amps.

**RTB** Remote Trouble Buzzer.

**4XTMF** Remote station output or municipal box connection (reverse polarity application).

**LED-10IM** EIA-485 port interface module. *Required for use with EIA-485 compatible devices (see above).*

**DP-2410B** Optional internal dead-front dress panel.

**TR-4-R** Flush mount trim ring.

**BB-17F** UL listed battery backbox. *Required for use with batteries over 12 AH.*

**ABS-8RF** Metal enclosure for mounting each ACM-8RF module.

**2410RB** Replacement motherboard.

**BAT-12120** Battery, 12 volt, 12.0 AH (*two required*).

**BAT-12180** Battery, 12 volt, 18.0 AH (*two required; requires BB-17F battery backbox for mounting*).

