



Fire-Lite® Alarms
INCORPORATED

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A2-450

MicroScan-2410BC

10-Zone, Class B, Fire Alarm Control Panel

Section: Conventional

GENERAL

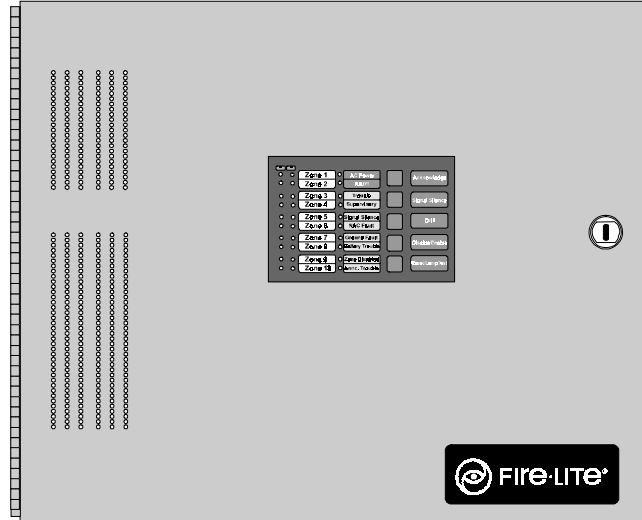
The **MicroScan-2410BC** is a ULC listed, 24 volt, ten-zone, Class B, Conventional Fire Alarm Control Panel. Designed exclusively to meet the latest Canadian market requirements and future ULC codes, the highly cost-effective MS-2410BC can be used in a variety of low- to mid-sized applications.



CS68 Vol. XIV

FEATURES

- Ten Style B (Class B) Initiating Device Circuits (IDCs).
 - All zones except 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 (Signal) 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.
- Alarm, Trouble and Supervisory, Form-C relays standard.
- 24-volt operation.
- Resettable four-wire smoke detector power @ 500 mA.
- Non-resettable power @ 500 mA.
- Integral battery charger capable of charging up to 18 AH batteries (batteries over 7 AH require use of the Fire•Lite **BB-17F** battery backbox, or ULC listed equivalent).
- Fuseless, power-limited technology meets all the latest power-limiting requirements.
- Fully programmable via built-in keypad (no costly external programmers necessary).
- Program mode password and special security key prevent unauthorized access to ensure the integrity of the field program information.
- Programmable Alarm Verification (zones 1 through 3 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.
- Programmable Trouble Reminder and Silence Inhibit capability.
- English and French slide-in labels for zone identification and programming options.
- Electronics and operational controls fully enclosed in lockable cabinet capable of housing up to 7 AH batteries.
- Reverse polarity protection.



- Standard dead-front dress panel (**DP-2410BC**), as required by ULC.
- **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** module.
 - 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 mm²) with 600-volt insulation.
- **Total 24 V system power:** 3.6 amps (expandable to 6.6 amps).
- **Notification appliance (signal) power:** 2.5 amps (expandable to 5.0 amps).
- **Maximum current per NAC:** 1.25 amps (expandable to 2.5 amps).
- **Maximum battery charging capability:** 18 AH.

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: (905) 660-7210 FAX: (905) 660-7204



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ISO-9001
Engineering and Manufacturing
Quality System Certified to
International Standard ISO-9001

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 ULC requirements using fuseless technology.

Notification Appliance 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 ULC requirements using fuseless technology.

Auxiliary Outputs

- Resettable four-wire smoke detector power @ 500 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-2410BC with EIA-485 output, capable of supporting up to 10 compatible EIA-485 devices (listed below).

LED-10 Series: LED-type fire annunciators capable of displaying Alarm (red) and Trouble (yellow) LEDs for all ten Initiating Device Circuits (IDCs). **NOTE:** For Canadian Supervisory Service, use LED-10LS2 only.

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 contact-by-zone capability (two minimum required for contact-by-zone). Each requires ABS-8RF for mounting.

NOTE: For more detailed information on **Compatible EIA-485 Devices** for use with the MS-2410BC, 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-2410BC** 24-Volt, 10-zone, Class B, ULC listed FACP. Includes DP-2410BC dead-front dress panel.
- XRM-24** 120VAC, 100 VA transformer. Expands total system power from 3.6 amps to 6.6 amps and NAC power from 2.5 amps to 5.0 amps.
- RTB** Remote Trouble Buzzer.
- 4XTMF** Remote station output or municipal box connection.
- LED-10IM** EIA-485 port interface module. *Required for use with EIA-485 compatible devices (see above).*
- DP-2410BC** Replacement internal dead-front dress panel (*included standard with MS-2410BC*).
- BB-17F** ULC listed battery backbox. *Required for use with batteries over 7 AH.*
- ABS-8RF** Metal enclosure for mounting each ACM-8RF module.
- 2410BCRB** Replacement motherboard.
- PS-1270** Battery, 12 volt, 7.0 AH (*two required*).
- PS-12120** Battery, 12 volt, 12.0 AH (*two required; requires BB-17F battery backbox for mounting*).
- PS-12170** Battery, 12 volt, 17.0 AH (*two required; requires BB-17F battery backbox for mounting*).

