

# MS-2410BC

## Ten-Zone, Class B Conventional FACP



### Conventional Fire Alarm Control Panels

#### General

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

#### Features

- Ten Class B Initiating Device Circuits (IDCs).
  - All zones 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, Class B Notification Appliance (Signal) Circuits (NACs).
- NACs may be programmed as:
  - 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-17 battery backbox, or ULC-listed equivalent).
- Fuseless, power-limited technology meets all the latest power-limiting requirements.
- Fully programmable via built-in keypad (no 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-2410B), 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-10Series Remote Fire Annunciator.
  - Optional AFM/ACS Series LED Annunciators.
  - LDM Series Graphic Annunciator Drivers.
- Local energy or remote station connection with optional 4XTMF transmitter module.

#### Specifications

- **AC Power:** 120 VAC, 60 Hz, 2.3 amps.
- **Wire size:** Minimum 14 AWG (2.0 mm<sup>2</sup>) wire 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.

#### INITIATING DEVICE CIRCUITS (ZONES)

- Ten 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 Class B @ 1.25 amps (expandable to 2.5 amps).
- 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-10LS2:** LED-type fire annunciator capable of displaying Alarm (red) and Trouble (yellow) LEDs for all ten Initiating Device Circuits (IDCs). Mount in a 3-gang electrical box.

**ACS Series:** LED-type fire annunciators capable of providing up to 16 zones of Alarm (red) annunciation and common system trouble LED. Only one ACM-16ATF is required to annunciate all ten zones of alarm provided "8-point shift" function is selected and no common control is required.

**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-8R for mounting.

**NOTE:** For more detailed information on Compatible EIA-485 Devices for use with the MS-2410BC, please refer to the LED-10Series, ACS, AFM, LDM or ACM-8RF data sheets.

### CABINET SPECIFICATIONS

**FACP Backbox:** 43.18 cm high x 50.80 cm wide x 9.380 cm (depth includes door). (Backbox Depth without door: 7.938 cm.) **Outer measurements of optional trim ring:** 21.06 cm high x 24.06 cm wide.

**Battery Backbox:** 36.83 cm wide x 21.59 cm high x 12.065 cm deep (depth includes cover plate).

### 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.

**PKB:** Replacement programming key.

**TR-5-R:** Trim ring, red

**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; mounts batteries up to 18AH.

**2410BCRB:** Replacement board.

**BAT-1270:** Battery, 12 volt, 7.0 AH (two required).

**BAT-12120:** Battery, 12 volt, 12.0 AH (two required; requires BB-17 battery backbox for mounting).

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

### Listings and Approvals

These listings and approvals apply to the basic MS-2410BC. In some cases, certain modules may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- ULC: UOJZC.S624



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.

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