February16, 2005

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FIRE-LITE ALARMS

www.firelite.com

GENERAL

The Fire•Lite **MS-2** and **MS-2E** Fire Alarm Control Panels bring the latest in microprocessor technology to conventional fire controls. The MS-2 is compatible with the new i^{3TM} smoke detectors from System Sensor, and provides such advanced features as drift compensation, maintenance alert, and freeze warning. Automatic synchronization of audio/visual devices is provided, using three selections for manufacturer protocol. The NAC protocol includes the ability to silence audible devices while strobes continue to flash, using only a single pair of wires.

The MS-2 also is compatible with conventional input devices such as two- and four-wire smoke detectors, pull stations, waterflow devices, tamper switches and other normally-open contact devices. For 240 VAC operation, order MS-2E. See the *Fire*•*Lite Device Compatibility Document 15384* for a complete list of compatible devices.

NOTE: Unless indicated otherwise, the term "MS-2" refers to both MS-2 and MS-2E models.

FEATURES

- Two Style B (Class B) IDCs (Initiating Device Circuits).
- One Style Y (Class B) NAC (Notification Appliance Circuit).
- 24 VDC.
- *i*^{3™} Technology features:
 - Drift compensation automatically adjusts detector sensitivity and increases resistance to false alarms caused by dust accumulation.
 - Maintenance Alert LEDs (per zone) warn of excessive dirt accumulation, preventing false alarms (meets NFPA 72 requirements).
 - Detector sensitivity is automatically measured by the detector, which automatically adjusts its sensitivity back to the factory settings when it becomes more sensitive due to contaminants settling in the chamber.
 - Wireless handheld sensitivity meter eliminates the need for voltmeters, magnets and a physical connection to the detector. The reader displays sensitivity in terms of percent per foot obscuration and provides text status indication.
 - Supervisory LED (per zone) provides warning if a detector senses temperature approaching freezing.
 - Special test protocol and LED indication allows quick test of all detectors without need for a ladder.
- NAC synchronization features:
 - Provides synchronization of standard ANSI audible signals as required by NFPA 72.
 - Provides synchronization of ADA compliant strobes per NFPA 72.

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.





California State Fire

MS-2(E)

Fire Alarm Control Panel

Section: Conventional

MS-2

- Selectable for System Sensor, Wheelock and Gentex protocols.
- Selective Silence feature allows manual silence of horns while strobes continue to flash on the same NAC.
- Silent or Audible Walk Test operation mode commanded from the front keypad, with automatic return to normal after one hour of inactivity.
- Alarm verification selectable per zone.
- Each zone may be programmed for supervisory or fire, with separate red and yellow LEDs.
- Disable switches provided per zone.
- NACs programmable for:
 - Silence Inhibit
 - Auto Silence
 - Strobe Synchronization
 - Selective Silence (horn-strobe mute)
 - Temporal or Steady signal
 - Silenceable or Nonsilenceable
- Form-C Alarm and Trouble relays.
- 3.0 amps total usable current.
- Optional dress panel (P/N DP-MS2/4).

i^{3™} is a trademark of System Sensor, a Honeywell company.

• Control buttons:

- ACK (Acknowledge)
- Alarm Silence
- Reset
- Walk Test
- Zone Enable/Disable (one per zone)
- LED indicators:
 - Fire Alarm (one per zone)
 - Supervisory (one per zone)
 - Trouble (one per zone)
 - Maintenance (one per zone)
 - AC Power
 - NAC Disable
 - Zone Disable
 - NAC Fault
 - System Trouble
 - Power Trouble
 - Walk Test
 - Alarm Silence
 - Earth Fault (on circuit board)
 - Battery Fault (on circuit board)
 - Charger Fault (on circuit board)
- Piezo sounder for alarm, trouble, supervisory and maintenance.

OPERATION

Activation of a compatible smoke detector or any normallyopen fire alarm initiating device activates audible and visual signaling devices, illuminates an indicating LED, sounds the piezo sounder at the FACP, activates the FACP alarm relay and operates an optional module used to notify a remote station or initiate an auxiliary control function.

SPECIFICATIONS

AC Power — TB8

- MS-2: 120 VAC, 50/60 Hz, 2.3 A
- MS-2E: 240 VAC, 50 Hz, 1.15 A.
- Wire size: minimum 14 AWG (2.0 mm²) with 600 V insulation.

Battery (sealed lead-acid only) — J8

- Maximum charging circuit: normal flat charge 27.6 VDC @ 0.8 A.
- Maximum battery charger capacity: 18.0 AH battery (two 7.0 AH batteries can be housed in the FACP cabinet. Larger batteries require a separate battery box such as the FireeLite BB-17F).

Initiating Device Circuits — TB3

- Alarm zones 1 & 2.
- Power-limited circuitry.
- Operation: all zones Style B (Class B).
- · Normal operating voltage: nominal 22 VDC.

- Alarm current: 15 mA minimum.
- Short-circuit current: 40 mA maximum.
- Maximum loop resistance: 100 ohms.
- End-of-line resistor: 4.7K ohm, 1/2 watt (P/N 71252).
- Standby current: 4 mA.
- Compatible devices: Refer to *Fire*•*Lite Device Compatibility Document 15384* for listed compatible devices.

Notification Appliance Circuits — TB2

- One NAC on MS-2.
- Power-limited circuitry.
- Normal operating voltage: nominal 24 VDC.
- Maximum signaling current: 2.5 A total with standard transform.
- End-of-line resistor: 4.7K ohm, 1/2 watt (P/N 71252).
- Compatible devices: refer to *Fire*•*Lite Device Compatibility Document 15384* for listed compatible devices.

Form-C Relays

- Trouble Relay TB5 (fail-safe).
- Alarm Relay TB 6.
- Relay contact ratings: 2.0 A @ 30 VAC (resistive).

Auxiliary Output: Resettable Power — TB1

- Operating voltage: nominal 24 VDC.
- Maximum available current: 500 mA appropriate for powering four-wire smoke detectors (see notes below).
- Power-limited circuitry.

NOTES: 1) See the Fire•Lite Device Compatibility Document 15384 for listed compatible devices. 2) Total current for resettable power and one NAC must not exceed 3.0 A for the MS-2.

Cabinet Dimensions

Door: 15.342" (38.97 cm) high x 14.677" (37.28 cm) wide x 0.375" (0.95 cm) deep. **Backbox:** 15.0" (38.10 cm) high x 14.5" (36.83 cm) wide x 3.0" (7.62 cm) deep.

BACKBOX MOUNTING

The cabinet can be surface mounted. The door is removable during installation by opening and lifting it off the hinges. The cabinet mounts using two key slots at the top of the backbox and two additional 0.250" diameter holes at the bottom.

PRODUCT LINE INFORMATION

- MS-2 Two-zone conventional FACP; 120 VAC, 50/60 Hz, 2.3 A.
- MS-2E Same as above with 240 VAC, 50 Hz, 1.15 A operation.
- **BB-17F** Battery box, required to house two batteries greater than 7 AH to a maximum of 18 AH.
- DP-MS2/4 Dress panel.
- MS-2RB MS-2(E) replacement board.