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MS-5024(E) Fire Alarm Control Panel with built-in DACT

Section: Control/Communicators

GENERAL

The **Fire-Lite MS-5024** is a 24-volt, five-zone fire alarm control panel with built-in communicator. The integral communicator transmits event information (alarms, troubles, supervisories, faults, etc.) to a UL-Listed central station. The MS-5024 may be used in a variety of cost-effective applications, including: local fire alarm control panel (communicator disabled), fire alarm control panel/communicator, stand-alone sprinkler supervisory communicator or slave communicator to a UL-Listed host fire alarm panel (requires N.O. dry contacts to trigger five channels). Selectable transmission formats allow the MS-5024 to communicate to virtually all central stations.

FEATURES

- Five programmable Initiating Device Circuits (zones). Each zone may be programmed for:
 - ✓ Two-wire smoke detectors.
 - ✓ N.O. contact devices (pull, heat).
 - ✓ Four-wire smoke detectors.
 - ✓ Waterflow operation.
 - ✓ Supervisory operation.
 - ✓ Auto-reset supervisory operation.
- Two built-in, Class B (Style Y) Notification Appliance Circuits (NACs).
- Notification Appliance Circuits may be programmed:
 - ✓ Silenceable.
 - ✓ Non-Silenceable (a strobe circuit can keep flashing after the panel is silenced).
 - ✓ Auto-Silence (program 5 to 30 minutes).
 - ✓ Silence Inhibit (60 seconds).
 - ✓ Coding (March Time, Temporal, California).
- 3.0 Amps of Notification Appliance power.
- Two built-in, fully programmable, Form-C relays.
- Dual-line rotary- or Touch-Tone®-dial DACT interfaces to public telephone network (leased phone lines are not required).
- 24-Volt operation.
- Built-in voltmeter measures:
 - ✓ Zone voltage.
 - ✓ Primary AC line voltage.
 - ✓ Battery voltage.
 - ✓ Notification Appliance Circuit(s) voltage.
 - ✓ Resettable 24-volt power.
- Surface Mount Technology (SMT).
- Fully programmable via built-in keypad (no costly external programmers necessary).
- Complies with NFPA 72 (Local, Central Station and Remote Station [DACT only — not polarity reversal] Fire Alarm Systems).



S624
(MS-5024,
MS-5024E)

MEA

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FCC

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California
State Fire
Marshal

7165-0075:175



MS-5024

- Reporting Formats include:
 - ✓ 3+1, 4+1, 4+2 Standard + Expanded.
 - ✓ 4+1, 4+2, Ademco Express.
- Integral battery charger for up to 60 hours of standby power.
- Fuseless, power-limited technology meets UL power-limiting requirements.
- Programmable Alarm Presignal Timer, Alarm Verification Timer and Optional Trouble Reminder.
- Single-person walk test.
- Fire drill function.
- Zone disable capability (software).
- 32-Event history buffer with time and date stamp.
- Accurate real-time clock.
- Extensive built-in transient protection.
- Electronics and operational controls fully enclosed in lockable cabinet capable of housing batteries up to 7 AH.
- 230 VAC, 50 Hz international version available.

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.

ISO 9001
CERTIFIED
ENGINEERING & MANUFACTURING
QUALITY SYSTEMS



Made in the U.S.A.

SPECIFICATIONS

- Single PC board design using Surface Mount Technology (SMT).
- Two modular telephone jacks for connection to RJ31X/Modules.

AC Power

- 120 VAC, 50/60 Hz, 1.3 amps.
- 230 VAC, 50 Hz, 0.68 amps ("E" suffix).
- Wire size: minimum 14 AWG (2.0 mm²) with 600-volt insulation.
- Built-in brownout circuitry.
- Built-in voltmeter.

Communicator

- One line-active indicator for each of two phone lines.
- "Kiss-Off" signal LED.
- Dual "low telephone voltage detect" circuitry.
- Programmable event codes per each format.
- Up to 58 transmitted events/messages.
- Selectable/deselectable transmissions of 58 events.
- Five zones may be configured to five channels as a slave communicator (channels are auto-resettable).

Communication Formats

Express formats allow complete transaction to be communicated in under five seconds.

- 20 PPS, 3+1 standard and expanded.
- 20 PPS, 4+1 standard and expanded.
- 20 PPS, 4+2 standard and expanded.
- 4+1 and 4+2 Ademco Express.

Initiating Device Circuits (zones)

The MS-5024 includes five programmable Initiating Device Circuits (zones). Circuits 1, 2, 4, and 5 are Style B (Class B). Circuit 3 is Style D (Class A). Use the CAC-5F, Class A converter module, to convert **all** Class B IDCs to Class A.

Each zone may support two-wire smoke detectors. Programming options include:

- Waterflow-Silenceable/Non-Silenceable.
- Supervisory-Standard/Auto-Reset.
- Pull Station.
- Normally Open Contact device.

All circuits are power-limited and also fully supervised. They allow up to 100 ohms of line resistance and allow for use of 12 to 18 AWG (3.1 to 0.78 mm²) wire.

Notification Appliance Circuits

- Two Style Y (Class B) @ 1.5 amps each.
- All circuits are fully power-limited and meet UL power-limiting requirements using fuseless technology.

Auxiliary Outputs

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

NOTE: Use of auxiliary power outputs does not derate available 3 amps of NAC power.

- Two fully programmable Form-C relays.

CABINET SPECIFICATIONS

The cabinet is red with a dark blue overlay. Knockouts on the top, sides, and back provide ease of wire entry. The cabinet can be surface or semi-flush mounted and is compact in design.

Dimensions:

Door: 14.75" high x 12.75" wide
(37.465 cm high x 32.385 cm wide).

Backbox: 14.5" high x 12.5" wide x 3.0" deep
(36.83 cm high x 31.75 cm wide x 7.62 cm deep).

Trim Ring: **Part # TR-3-R**
17.625" high x 15.625" wide
(44.768 cm high x 39.688 cm wide).

PRODUCT LINE INFORMATION

MS-5024 Five-zone, 24-volt, Fire Alarm Control Communicator. Includes backbox, transformer, technical manual, and a frame & post operating instruction sheet.

MS-5024E Same as above with 230 VAC, 50 Hz transformer (UL Listed).

RZA-5F Five-zone Remote Annunciator mounts to a single-gang box (*requires ADM-24*).

ADM-24 Annunciator Driver Module.

CAC-5F Class A Converter Module. Converts **all** Class B Initiating Device Circuits (zones) to Class A.

NACA-2F Class A Converter module. Converts both Class B Notification Appliance Circuits (NAC) to Class A.

DP-5024 Internal Dress Panel.

MCBL-7 DACT phone cord, 7 feet long, (*two required*).

BB-17F UL listed battery backbox. Required for batteries over 7 AH.

TR-3-R Trim ring.

BAT-1242 Battery, 12-volt, 4.2 AH (*two required*).

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

BAT-12120 Battery, 12-volt, 12.0 AH (*two required, requires BB-17F backbox*).

BAT-12170 Battery, 12-volt, 17.0 AH (*two required, requires BB-17F backbox*).

5024RB Replacement motherboard.

UL-LISTED RECEIVERS compatible with the MS-5024

	Model # (UL-listed models 16 & 42)	685 (1)	9000 (2)	4000 (3)	2200 (4)	1 & 2 (5)	6000/6500 (6)	3000 (7)	2 (8)
0	4+1 0 0 0 0 0 0 0 0 0 0	✓			✓				✓
1	4+2 0 0 0 0 0 0 0 0 0 0	✓			✓	✓ (8)			✓
2	3+1 0 0 0 0 0 0 0 0 0 0	✓	✓ (2)	✓	✓ (4)	✓	✓ (5,6)	✓	✓
3	3+1 0 0 0 0 0 0 0 0 0 0	✓	✓ (2)	✓	✓ (4)	✓		✓	✓
4	3+1 0 0 0 0 0 0 0 0 0 0	✓	✓ (2)		✓ (4)	✓		✓	✓
5	3+1 0 0 0 0 0 0 0 0 0 0	✓	✓ (2)		✓ (4)	✓		✓	✓
6	4+1 0 0 0 0 0 0 0 0 0 0	✓	✓ (2)	✓	✓ (4)	✓	✓ (5)	✓	✓
7	4+1 0 0 0 0 0 0 0 0 0 0	✓	✓ (2)		✓ (4)	✓		✓	✓
8	4+1 0 0 0 0 0 0 0 0 0 0	✓	✓ (2)		✓ (4)	✓		✓	✓
9	4+1 0 0 0 0 0 0 0 0 0 0	✓	✓ (2)		✓ (4)	✓		✓	✓
0	4+2 0 0 0 0 0 0 0 0 0 0	✓	✓ (2)	✓	✓ (4)	✓	✓ (5)	✓	✓
0	4+2 0 0 0 0 0 0 0 0 0 0	✓	✓ (2)		✓ (4)	✓		✓	✓
0	4+2 0 0 0 0 0 0 0 0 0 0	✓	✓ (2)		✓ (4)	✓		✓	✓
0	4+2 0 0 0 0 0 0 0 0 0 0	✓	✓ (2)		✓ (4)	✓		✓	✓
0	(0 0 0 0 0 0 0 0 0 0)								
0	(0 0 0 0 0 0 0 0 0 0)								

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KEY:

- (1) With 685-8 Line Card with Rev. 4.4d software.
- (2) With 9002 Line Card Rev. 9035 software or 9032 Line Card with 9326A software.
- (3) Rev. 4.0 software.
- (4) FBI CP220FB Rec-11 Line Card with Rev. 2.6 software and a memory card with Rev. 3.8 software.
- (5) Model 6500 with Rev. 600 software.
- (6) Model 6000 with Rev. 204 software.
- (7) With Rev. B control card at Rev. 1.4 software and Rev. C line card at Rev. 1.5 software.
- (8) Model 2 only.
- (9) Version 1.62 software.