

FIre LITe ALarms Incorporated

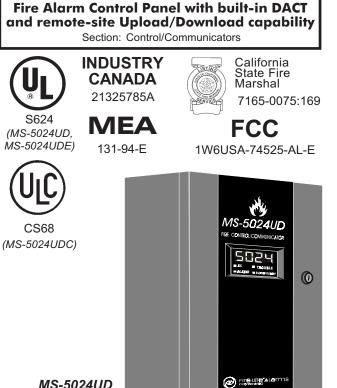
GENERAL

The Fire-Lite MS-5024UD is a 24-volt, five-zone fire alarm control panel with built-in communicator and remote-site Upload/Download capability. The integral communicator transmits event information (alarms, troubles, supervisories, faults, etc.) to a UL listed central station. The MS-5024UD 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 5 channels). Selectable transmission formats allow the MS-5024UD 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 A or B (Style Z or 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, expandable to 5.0 amps (meets the critical power requirements for ADA and UL-1971 devices).
- Two built-in Form-C Alarm and Trouble relavs.
- · Supervisory and communication fail outputs.
- 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).

September 26, 1997



MS-5024UD(C/E)

MS-5024UD

- · Complies with NFPA 72-1993 edition (Local, Central Station and Remote Station [DACT only - not polarity reversal] Fire Alarm Systems).
- · 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 new UL powerlimiting requirements, effective May 1, 1995.
- 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/calendar.
- Extensive built-in transient protection.
- · Electronics and operational controls fully enclosed in a lockable cabinet capable of housing up to 7 AH batteries.
- · Optional contact-by-zone module and optional remote annunciator.
- Optional printer interface for on or off-line printing.

ISO-9001

Engineering and Manufacturing

Quality System Certified to International Standard ISO-9001

230 VAC, 50 Hz international version available.

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: (203) 484-7161 FAX: (203) 484-7118 \odot

FIRE LITE ALARMS 12 Clintonville Road, Northford, Connecticut 06472 A3-300

Remote Site Upload/Download

The MS-5024UD may be downloaded or uploaded, without affecting the system fire protection.

- Download system programming.
- Upload key system information:
 - ✓ Current system status, history and walk test files.
 ✓ Zone, AC line, NAC 1 and NAC 2, Resettable Power and Battery Voltages.
 - ✓ System Programming.
- Upload or Download within one minute without affecting normal fire panel functions.
- Multiple security techniques.
- Requires PK-5024UD programming kit, which works with most Hayes-compatible modems (consult factory for listing).

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, 2.3 amps.
- 230 VAC, 50 Hz, 1.2 amps ("E" suffix).
- Wire size: minimum 14 AWG 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 62 transmitted events/messages.
- Selectable/deselectable transmissions of 62 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 5 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-5024UD 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 wire.

Notification Appliance Circuits

- Two Style Z/Y (Class A/B) @ 2.5 amps each.
- All circuits are fully power-limited and meet the new UL power-limiting requirements, effective May 1, 1995, using fuseless technology.

Auxiliary Outputs

- Resettable four-wire smoke detector power @ 300mA.
- Non-resettable power @ 300 mA.
- Integral Form-C Alarm and Trouble relays.
- Relay drivers for supervisory and communication fail.

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: 15-7/32" high x 14-7/32" wide (38.655 cm high x 36.115 cm wide). **Backbox:** 15" high x 14-1/2" wide x 3" deep (38.1 cm high x 36.83 cm wide x 7.62 cm deep). **Trim Ring (Part # TR-1-R):** 18.125" high x 17.62" wide (46.0375 cm high x 44.7548 cm deep)

PRODUCT LINE INFORMATION

Model Description

- **MS-5024UD** Five-zone, 24-volt Fire Alarm Control Communicator (includes backbox, transformer, technical manual, and a frame & post operating instruction sheet).
- **MS-5024UDC** Same as above with ULC listing and DP-5024UD Dress Panel.
- **MS-5024UDE** Same as MS-5024UD with 230 VAC, 50 Hz transformer (UL listed).
- XRM-24 120 VAC, 100 VA transformer expands NAC power from 3.0 to 5.0 amps.
- **RZA-5F** Five-zone Remote Annunciator mounts to a single gang box (*requires ADM-24*).
- ADM-24 Annunciator Driver Module.
- **RM-5F** Five-zone Relay Module provides contact-byzone.
- **CAC-5F** Class A Converter Module. Converts *all* Class B Initiating Device Circuits (zones) to Class A.
- **PRT-24** Printer Interface Module provides an EIA-232 printer output. Includes cable, DB9F and DB25 adapter.
- **PK-5024UD** Upload/Download Utility includes programming software (3.5" IBM-compatible, high-density disks and Instruction Manual).
- **DP-5024UD** Internal Dress Panel (included when ordering MS-5024UDC).
- MCBL-7 DACT phone cord, 7 feet long, (two required).
- **BB-17F** Battery backbox. Required for batteries over 7 AH.
- TR-1-R Trim ring.
- PS-1242 Battery, 12 volt, 4.2 AH (two required).
- **PS-1270** Battery, 12 volt, 7.0 AH (two required).
- **PS-12120** Battery, 12 volt, 12.0 AH (two required, requires *BB-17F backbox*).
- **PS-12170** Battery, 12 volt, 17.0 AH (two required, requires BB-17F backbox).

	Format # (Addresses 16 & 42)	Ademco 685 (1)	Silent Knight 9000	ITI CS-4000 (3)	FBI CP220FB	Osborne Hoffman Models 1 & 2	Radionics 6000/ 6500 (5)	Sescoa 3000R (7)	Sur-Gard MLR-2 (9)
0	4+1 Ademco Express	~			~				~
1	4+2 Ademco Express	~			~	✓ (8)			~
2	3+1/Standard/1800/2300	~	v (2)	~	✓ (4)	~	√ (5,6)	~	~
3	3+1/Expanded/1800/2300	~	✓ (2)	~	✓ (4)	~		~	~
4	3+1/Standard/1900/1400	~	v (2)		✓ (4)	~		~	~
5	3+1/Expanded/1900/1400	~	v (2)		✓ (4)	~		~	~
6	4+1/Standard/1800/2300	~	v (2)	~	✓ (4)	~	v (5)	~	~
7	4+1/Expanded/1800/2300	~	v (2)		✓ (4)	~		~	~
8	4+1/Standard/1900/1400	~	v (2)		✓ (4)	~		~	~
9	4+1/Expanded/1900/1400	~	v (2)		✓ (4)	~		~	~
А	4+2/Standard/1800/2300	~	v (2)	~	✓ (4)	~	✓ (5)	~	~
В	4+2/Expanded/1800/2300	~	v (2)		✓ (4)	~		~	~
С	4+2/Standard/1900/1400	~	v (2)		✓ (4)	~		~	~
D	4+2/Expanded/1900/1400	~	v (2)		v (4)	~		~	~
Е	(NOT USED)								
F	(NOT USED)								

- (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.