FIRE·LITE®ALARMS INCORPORATED

MS-5012
Fire Alarm Control Panel
with built-in DACT
Section: Control/Communicators

UL S624

MEA 118-93-E

FCC 1W6USA-74525-AL-E

California State Fire Marshal 7165-0075:154

GENERAL

The **Fire•Lite MS-5012** is a 12-volt, five-zone fire alarm control panel with built-in communicator. The integral communicator transmits event information (alarms, troubles, supervisories, faults, etc.) to a central station. The MS-5012 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 transmitting formats allow the MS-5012 to communicate to virtually all central stations.

FEATURES

- *NEW LARGER ENCLOSURE.*
- Five programmable Initiating Device Circuits (zones). Zones may be programmed for:
  - ✓ Two-wire smoke detectors (Zones 2 & 3).
  - ✓ N.O. contact devices (pulls, heats).
  - ✓ Four-wire smoke detectors.
  - ✓ Waterflow operation (Zone 3 only).
  - ✓ Supervisory operation (Zone 4 only).
- One Style Y (Class B) Notification Appliance (Bell) Circuit (NAC).
- 1.0 Amp of Notification Appliance power.
- Relay driver outputs for alarm, trouble, supervisory and communication failure.
- Dual-line rotary- or Touch-Tone®-dial DACT interfaces to public telephone network (leased phone lines are not required).
- 12-Volt operation.
- Built-in voltmeter measures:
  - ✓ Primary AC line voltage.
  - ✓ Battery voltage.
  - ✓ Zone voltage.
- Surface Mount Technology.
- Programmable via built-in keypad (no costly external programmers necessary).
- Complies with NFPA 72-1993 edition (Local, Central Station and Remote Station *[DACT only - not polarity reversal]* Fire Alarm Systems).
- Reports in several major communication formats (see reverse).
- Fuseless, power-limited technology meets new UL power-limiting requirements, effective May 1, 1995.
- Smoke detector alarm verification (Zones 2 & 3).
- Single-person walk test.
- Programmable Auto Silence timer and Silence Inhibit timer.

MS-5012

- 16-Event history buffer.
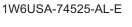- Accurate real-time clock.
- Extensive built-in transient protection.
- Electronics and operational controls fully enclosed in a lockable cabinet capable of housing up to 7 AH batteries.

OPTIONAL REMOTE ANNUNCIATOR

The **RZA-5F** is a five-zone Remote Annunciator for use with the **FireWatch 5000 Series** control/communicators. They mount to a single-gang box and offer slide-in zone identification labels. The RZA-5F provides the following:

- Zone 1 LED (red)
- Zone 2 LED (red)
- Zone 3 LED (red)
- Zone 4 LED (red)
- Zone 5 LED (red)
- System Trouble LED
- Local Piezo Sounder
- Silence Switch

NOTE: *RZA-5F requires use of ADM-12 driver module. All LEDs are individually supervised.*

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

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, 0.32 amps.
- 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 40 transmitted events/messages.
- Selectable/Deselectable transmissions of 40 events.
- Five zones may be configured to five channels as a slave communicator (channels are auto-resettable).

Communication Formats

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

Initiating Device Circuits (zones)

The MS-5012 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).

- Initiating Circuit 1 — Manual Pull Station
- Initiating Circuit 2 — Two-Wire Smoke Detector
- Initiating Circuit 3 — Waterflow
- Initiating Circuit 4 — Supervisory
- Initiating Circuit 5 — Four-Wire Smoke Detector

NOTE: *Default circuit descriptions are listed. Circuits 1, 4, and 5 may be programmed to monitor any normally open (N.O.) type of Initiating Device. Circuits 2 & 3 may be programmed to power two-wire smoke detectors.*

All circuits are power limited and fully supervised. They allow for up to 100 ohms of line resistance and the terminal blocks allow for 12 to 18 AWG wire.

Notification Appliance Circuits

- One Style Y (Class B) @ 1.0 Amp.
- All circuits are fully power-limited and meet the new UL power-limiting requirements, effective May 1, 1995, using fuseless technology.

Auxiliary Outputs

- Resettable 4-wire smoke detector power @ 200 mA.
- Non-resettable power @ 185 mA.
- Relay drivers for use with optional remote 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 also can be surface or semi-flush mounted and is compact in design.

Cabinet Dimensions

Effective July 1996

Door: 14-3/4" high x 12-3/4" wide (37.465 cm high x 32.385 cm wide).

Backbox: 14-1/2" high x 12-1/2" wide x 3" deep (36.83 cm high x 31.75 cm wide x 7.62 cm deep).

Trim Ring: *Part # TR-3-R* 17-5/8" high x 15-5/8" wide (44.7675 cm high x 39.6875 cm wide).

PRODUCT LINE INFORMATION

Model	Description
MS-5012	Five-zone, 12-volt Fire Alarm Control Communicator (includes box & transformer, technical manual, and a frame & post operating instruction sheet).
RZA-5F	Five-zone Remote Annunciator mounts to a single-gang box *(requires ADM-12)*.
ADM-12	Annunciator Driver Module.
DP-5024	Internal Dress Panel.
MCBL-7	DACT phone cord, 7 feet long *(2 required)*.
TR-3-R	Trim ring.
PS-1242	Battery, 12 volt, 4.2 AH.
PS-1270	Battery, 12 volt, 7.0 AH.

UL LISTED RECEIVERS compatible with the MS-5012

Format # (Addresses 16 & 42)	Ademco 685 (1)	Silent Knight 9000	ITI CS-4000 (3)	FBI CP220FB	Osborne Radionics Hoffman Models 1 & 2	6000/ 6500 (5)	Sescoa 3000R (7)	Sur-Gard MLR-2 (8)
0	(NOT USED)							
1	(NOT USED)							
2	3+1/Standard/1800/2300	✔	✔ (2)	✔	✔ (4)	✔	✔ (5,6)	✔	✔
3	3+1/Expanded/1800/2300	✔	✔ (2)	✔	✔ (4)	✔		✔	✔
4	3+1/Standard/1900/1400	✔	✔ (2)		✔ (4)	✔		✔	✔
5	3+1/Expanded/1900/1400	✔	✔ (2)		✔ (4)	✔		✔	✔
6	4+1/Standard/1800/2300	✔	✔ (2)	✔	✔ (4)	✔	✔ (5)	✔	✔
7	4+1/Expanded/1800/2300	✔	✔ (2)		✔ (4)	✔		✔	✔
8	4+1/Standard/1900/1400	✔	✔ (2)		✔ (4)	✔		✔	✔
9	4+1/Expanded/1900/1400	✔	✔ (2)		✔ (4)	✔		✔	✔
A	4+2/Standard/1800/2300	✔	✔ (2)	✔	✔ (4)	✔	✔ (5)	✔	✔
B	4+2/Expanded/1800/2300	✔	✔ (2)		✔ (4)	✔		✔	✔
C	4+2/Standard/1900/1400	✔	✔ (2)		✔ (4)	✔		✔	✔
D	4+2/Expanded/1900/1400	✔	✔ (2)		✔ (4)	✔		✔	✔
E	(NOT USED)							
F	(NOT USED)							

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) Version 1.62 software.