

by Honeywell

GENERAL

The Fire-Lite MS-5210UD is a 24-volt, ten-zone fire alarm control panel with built-in communicator and remote-site Upload/Download capability (requires panel software revision #MS52103.0 or greater). The integral communicator transmits event information (alarms, troubles, supervisories, faults, etc.) to a UL listed central station. Selectable transmission formats allow the MS-5210UD to communicate to virtually all central stations.

FEATURES

- · Ten 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 (silenceable or nonsilenceable).
 - ✓ Supervisory operation.
 - ✓ Auto-reset supervisory operation.
 - ✓ Remote switch for Reset, Drill, Silence and Acknowl-
 - ✓ Auto-reset or latching, critical and noncritical process monitoring.
- · Zones programmed for process monitoring require a contact closure for activation and can be used to monitor:
 - ✓ Temperature (high/low temp).
 - ✓ Water level.
 - ✓ Refrigeration.
 - ✓ Gas detection.
 - ✓ Tamper (non-fire).
 - ✓ Loss of air flow.
 - ✓ Open/Close.
- · Two built-in, Class B (Style Y) Notification Appliance Circuits (NACs) — expandable to four.
- · 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 6.0 amps (meets the critical power requirements for ADA and UL-1971 devices).
- · Two built-in, fully programmable Form-A relays expandable to four with two 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.

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DF-51492 • A3-400

MS-5210UD(C/E)

Fire Alarm Control Panel with built-in DACT and remote-site Upload/Download capability

Section: Control/Communicators



MEA 122-96-E



California State Fire Marshal

7165-0075:177

S5624

FCC 1W6USA-20723-AL-E

INDUSTRY CANADA

21325785A





MS-5210UD

- · 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).
- Reporting Formats include Ademco Contact ID and 14 others.
- 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 with 256-event walk-test buffer.
- · Fire drill function.
- · Zone disable capability (software).
- · 256-Event history buffer with time and date stamp, stored in permanent memory.
- · Accurate real-time clock/calendar.

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, Website: www.firelite.com





- Electronics and operational controls fully enclosed in a lockable cabinet capable of housing up to 12 AH batteries
- Optional LED-10 Series Remote Annunciators operate off serial two-wire EIA-485 interface.
- Optional contact-by-zone module and printer interface for on- or off-line printing.
- · 230 VAC, 50 Hz international version available.

REMOTE SITE UPLOAD/DOWNLOAD

The MS-5210UD may be downloaded or uploaded (requires panel software revision #MS52103.0 or greater) without compromising the system fire protection at the protected premises.

- · Download system programming.
- · Upload key system information:
 - ✓ Current system status, history + walk test files.
 - ✓ Zone, AC line, NAC1, 2, 3 and 4, resettable power and battery voltages.
 - ✓ System programming.
- Upload or download within one minute without affecting normal fire panel functions.
- · Multiple security techniques.
- Requires PK-5210UD 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 100 transmitted events/messages.
- Selectable/deselectable transmissions of 100 events.

Communication Formats

Express and Ademco Contact ID formats allow complete transaction to be communicated in under five seconds.

- · Ademco Contact ID.
- 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-5210UD includes ten programmable Class B Initiating Device Circuits (zones). Use the CAC-10F Class A converter module to convert *all* Class B IDC's/NAC's to Class A.

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

- · Normally Open Contact devices (pull, heat).
- Four-wire smoke detectors.

- Waterflow (silenceable/non-silenceable) operation.
- Supervisory (standard/auto-reset) operation.
- · Remote switch for Reset, Drill, Silence, Acknowledge.
- Critical and Noncritical Process Monitoring (standard/ auto-reset).

All circuits are power-limited and 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 Y (Class B) @ 3.0 amps each. Use the CAC-10F Class A Converter Module to convert all Class B NAC's and IDC's to Class A.
- Option module adds two Style Z (Class A) NACs @ 1.5 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 @ 500 mA.
- Non-resettable power @ 500 mA.
- Two fully programmable Form-A/B relays.
- Option module adds two fully programmable Form-C relays.

COMPATIBLE DEVICES, EIA-485 PORT

LED-10IM: EIA-485 Interface Module. Provides MS-5210UD with EIA-485 output, capable of supporting up to 32 compatible EIA-485 devices (listed below).

LED-10 Series: LED-type fire annunciators capable of displaying Alarm (red) and Trouble (yellow) LEDs for all ten Initiating Device Circuits (IDCs). **NOTE:** For Canadian Supervisory Service, use LED-10LS2 only.

AFM-16AF: LED-type fire annunciator capable of providing up to 16 zones of Alarm (red) annunciation and common system trouble LED. Mounts to 4-gang electrical box *ONLY*.

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-8RF for mounting.

NOTE: For more detailed information on **Compatible EIA-485 Devices** for use with the MS-5210UD, please refer to the **LED-10**, **AFM/AFM-X**, **LDM** or **ACM-8RF** data sheets, document numbers
DF-51500, DF-51465, DF-51384, and DF-51555 respectively.

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: 17.11" high x 14.71" wide

(43.46 cm high x 37.36 cm wide).

Backbox: 16.90" high x 14.50" wide x 4.50" deep

(42.93 cm high x 36.83 cm wide x 11.43 cm

deep).

Trim Ring: Part # TR-4-R, 20.020" high x 17.620" wide

(50.85 cm high x 44.75 cm wide).

PRODUCT LINE INFORMATION
MS-5210UD Ten-zone, 24-volt Fire Alarm C

Ten-zone, 24-volt Fire Alarm Control Communicator (includes backbox, transformer, technical manual, and a frame & post op-

erating instruction sheet).

MS-5210UDC Same as above with ULC listing and DP-4-

R dress panel included.

MS-5210UDE Same as MS-5210UD with 230 VAC, 50 Hz

transformer (UL listed).

XRM-24 120 VAC, 100 VA transformer. Expands

NAC power from 3.0 to 6.0 amps and system power from 3.6 amps to 6.6 amps.

NAC-REM Notification Appliance (Signal) Circuit, Re-

lay Expander Module. Adds two (Class A)

NACs and two Form-C relays.

CAC-10F Class A Converter Module. Converts all

Class B Initiating Device Circuits (zones) and standard Notification Appliance Circuits

to Class A.

PRT-24 Printer Interface Module. Provides an EIA-232 printer output. Includes cable, DB9F and

DB25 adapter.

PK-CD Contains programming software for Windows-

based PC computer.

DP-4-R Internal Dress Panel (included when order-

ing MS-5210UDC).

MCBL-7 DACT phone cord, 7 feet long (two required).BB-17F UL listed battery backbox. Required for bat-

teries over 12 AH.

Metal enclosure for mounting each ACM-8RF

module.

TR-4-R Trim ring.

ABS-8RF

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

BAT-12120 Battery, 12 volt, 12.0 AH (*two required*). **BAT-12180** Battery, 12 volt, 18.0 AH (*two required, re-*

quires BB-17F backbox).

5210UDRB Replacement motherboard.

UL LISTED RECEIVERS COMPATIBLE WITH THE MS-5210UD

	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)	SurGuard MLR-2 (9)
0	4+1 Ademco Express	~			~				V
1	4+2 Ademco Express	~			~	4 (8)		~	~
2	3+1/Standard/1800/2300	~	✓ (2)	~	✓ (4)	V	✓ (5,6)	~	~
3	3+1/Expanded/1800/2300	~	✓ (2)	~	✓ (4)	V		~	~
4	3+1/Standard/1900/1400	~	✓ (2)		✓ (4)	~		~	~
5	3+1/Expanded/1900/1400	~	✓ (2)		✓ (4)	V		~	~
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)	V		~	~
Α	4+2/Standard/1800/2300	~	✓ (2)	~	✓ (4)	~	✓ (5)	~	~
В	4+2/Expanded/1800/2300	~	✓ (2)		✓ (4)	~		~	~
С	4+2/Standard/1900/1400	~	✓ (2)		✓ (4)	~		~	~
D	4+2/Expanded/1900/1400	~	✓ (2)		✓ (4)	~		~	~
Е	Ademco Contact ID	~			V	~			~

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.

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