MS-9200UDLS(E) Rev 3
Intelligent Addressable FACP with Built-In Communicator

General

The Fire•Lite MS-9200UDLS Rev 3 with Version 5.0 firmware is a combination FACP (Fire Alarm Control Panel) and DACT (Digital Alarm Communicator/Transmitter) all on one circuit board. This compact intelligent addressable control panel has an extensive list of powerful features.

While the MS-9200UDLS Rev 3 may be used with an SLC configured in the CLIP (Classic Loop Interface Protocol) mode, it can also operate in LiteSpeed™ mode—Fire•Lite's latest polling technology—for a quicker device response time. LiteSpeed’s patented technology polls 10 devices at a time. This improvement allows a fully-loaded panel with up to 198 devices to report an incident and activate the notification circuits in under 10 seconds. With Litespeed polling, devices can be wired on standard twisted, unshielded wire up to a distance of 10,000 feet.

The MS-9200UDLS Rev 3’s quick-remove chassis protects the electronics during construction. The backbox can be installed allowing field wiring to be pulled. When construction is completed, the electronics can be quickly installed with just two bolts.

New features for Rev 3 with Version 5.0 firmware include removable terminal blocks, improved transient protection, additional secondary ANN-BUS, and increased power for the resettable and remote sync outputs.

Available accessories include ANN-BUS devices as well as ACS LED, graphic and LCD annunciators, and reverse polarity/city box transmitter.

The integral DACT transmits system status (alarms, supervisory, troubles, AC loss, etc.) to a Central Station via the public switched telephone network. It also allows remote and local programming of the control panel using the PS-Tools Upload/Download utility. In addition, the control panel may be programmed or interrogated off-site via the public switched telephone network. Any personal computer with Windows® XP or greater, a compatible modem, and PS-Tools—the Fire•Lite Upload/Download software kit—may serve as a Service Terminal. This allows download of the entire program or upload of the entire program, history file, walktest data, current status and system voltages. The panel can also be programmed through the FACP’s keypad or via a standard PS-2 computer keyboard, which can be plugged directly into the printed circuit board. This permits easy typing of address labels and other programming information.

Version 5.0 firmware supports the following: Primary and Secondary ANN-bus devices, AD355 (LiteSpeed), USB port, NAC circuit diagnostics, a new report has been added to the walktest that lists untested devices, new device types added: audio telephone type code for ACC 25/50ZST, Photo Supervisory and auto-resettable Drill (non-latching).

The FireWatch Series internet monitoring modules IPDACT-2 and IPDACT-2UD permit monitoring of alarm signals over the Internet saving the monthly cost of two dedicated business telephone lines. Although not required, the secondary telephone line may be retained providing backup communication over the public switched telephone line.

NOTE: Unless otherwise specified, the term MS-9200UDLS is used in this document to refer to both the MS-9200UDLS and the MS-9200UDLS(E) FACP(s) (Fire Alarm Control Panels).
• EIA-232 printer/PC interface (variable baud rate) on main circuit board, for use with optional UL-listed printer PRN-6F.
• Integral 80-character LCD display with backlighting.
• Real-time clock/calendar with automatic daylight savings control.
• Detector sensitivity test capability (NFPA 72 compliant).
• History file with 1,000-event capacity.
• Maintenance alert warns when smoke detector dust accumulation is excessive.
• Automatic device type-code verification.
• One person audible or silent walk test with walk-test log and printout.
• Point trouble identification.
• Waterflow (nonsilenceable) selection per monitor point.
• System alarm verification selection per detector point.
• PAS (Positive Alarm Sequence) and presignal delay per point (NFPA 72 compliant).

**NOTE:** Only detectors may participate in PAS.

**SLC LOOP:**
- SLC can be configured for NFPA Style 4, 6, or 7 operation.
- SLC supports up to 198 addressable devices per loop (99 detectors and 99 monitor, control, or relay modules).
- SLC loop maximum length 10,000 ft. (3,000 m.).

See installation manual for wire tables.

**NOTIFICATION APPLIANCE CIRCUITS (NACS):**
- Four onboard NACs with additional NAC capability using output control modules (CMF-300 or CMF-300-6). The four Class B NACs can be converted to four Class A NACs with optional ZNAC-92 converter module.
- Silence Inhibit and Auto Silence timer options.
- Continuous, March Time, Temporal or California code for main circuit board NACs with two-stage capability.
- Selectable strobe synchronization per NAC.
- 2.5 amps maximum per each NAC circuit.

**NOTE:** Maximum 24VDC system power output is shared among all NAC circuits and 24VDC special-application auxiliary power outputs. Total available output is 3.0 amps. Using the optional XRM-24B transformer increases 24VDC output to 6.0 amps.

**PROGRAMMING AND SOFTWARE:**
- Autoprogram (learn mode) reduces installation time.
- Custom English labels (per point) may be manually entered or selected from an internal library file.
- Three Form-C relay outputs (two programmable).
- 99 software zones.
- Continuous fire protection during online programming at the front panel.
- Program Check automatically catches common errors not linked to any zone or input point.

**OFFLINE PROGRAMMING:** Create the entire program in your office using a Windows®-based software package (order programming kit PS-Tools, separately). Upload/download system programming locally to the MS-9200UDLS Rev 3 in less than one minute.

- USB upload/download programming with standard Male-A to Male-B cable.

**User Interface**

**LED INDICATORS**
- AC Power (green)
- Fire Alarm (red)
- Supervisory (yellow)
- Alarm Silenced (yellow)
- System Trouble (yellow)
- Maintenance/Presignal (yellow)
- Disabled (yellow)
- Battery Fault (yellow)
- Ground Fault (yellow)

**KEYPAD CONTROLS**
- Acknowledge/Step
- Alarm Silence
- Drill
- System Reset (lamp test)
- 16-key alpha-numeric pad (similar to telephone keypad)
- 4 cursor keys
- Enter

**Product Line Information**

**MS-9200UDLS:** 198-point addressable Fire Alarm Control Panel, one SLC loop. Includes 80-character LCD display, single printed circuit board mounted on chassis, and cabinet. 120 VAC operation.

**MS-9200UDLSE:** Same as MS-9200UDLS, except with 240 VAC operation.

**4XTMF Reverse Polarity Transmitter Module:** Provides supervised output for local energy municipal box transmitter, alarm, and trouble.

**ZNAC-92:** Optional converter module which converts four (4) Style Y (Class B) NAC circuits to four (4) Style Z (Class A) circuits.


**DP-9692:** Optional dress panel for MS-9200UDLS Rev 3.

**TR-CE:** Optional trim Ring for semi-flush mounting.

**BB-26:** Battery backbox, holds up to two 25 AH batteries and CHG-75.

**BB-55F:** Battery box, houses two 55 AH batteries.

**CHG-75:** Battery charger for lead-acid batteries with a rating of 25 to 75 AH.

**CHG-120F:** Remote battery charging system for lead-acid batteries with a rating of 55 to 120 AH. Requires additional BB-55F for mounting.

**BAT Series:** Batteries, see data sheet DF-52397.

**XRM-24B(E):** Optional transformer. Increases system power output to 6.0 amps. Use XRM-24BE with MS-9200UDLS Rev 3(E).

**PRT/PK-CABLE:** Cable printer/personal computer interface cable; required for printer or for local upload/download programming and updating panel firmware.

**PRN-6F:** UL listed compatible event printer. Uses tractor-fed paper.

**IPDACT-2/2UD, IPDACT Internet Monitoring Module:** Mounts in bottom of enclosure with optional mounting kit (PN IPBRTK). Connects to primary and secondary DACT telephone output ports for internet communications over customer provided ethernet internet connection. Requires compatible Teldat VisorALARM Central Station Receiver. Can use DHCP or static IP. (See data sheet DF-60407 or DF-52424 for more information.)
IPBRKT: Mounting kit for IPDACT-2/2UD in common enclosure.

IPSPLT: Y-adaptor option allows connection of both panel dialer outputs to one IPDACT-2/2UD cable input.

COMPATIBLE ANNUNCIATORS

ANN-80(-W): LCD Annunciator is a remote LCD annunciator that mimics the information displayed on the FACP LCD display. Recommended wire type is un-shielded. (Basic model is red; order -W version for white; see DF-52417.)

ANN-LED: Annunciator Module provides three LEDs for each zone. Alarm, Trouble and Supervisory. Ships with red enclosure (see DF-60241).

ANN-RLED: Provides alarm (red) indicators for up to 30 input zones or addressable points. (See DF-60241).

ANN-RLY: Relay Module, which can be mounted inside the cabinet, provides 10 programmable Form-C relays. (See DF-52431.)

ROME: Relay Option Module Enclosure. Provides one ANN-RLY Relay Module already installed. The ROME Series provides mounting space for one additional Relay Module or one addressable Multi-module. (See Installation Sheet PN 53530.)

ANN-S/PG: Serial/Parallel Printer Gateway module provides a connection for a serial or parallel printer. (See DF-52429.)

ANN-I/O: LED Driver Module provides connections to a user supplied graphic annunciator. (See DF-52430.)

ACM-8RF: Relay module provides 8 Form-C 5.0 amp relays.

ACS-LED Zone Series: LED-type fire annunciators capable of providing up to 99 software zones of annunciation. Available in increments of 16 or 32 points to meet a variety of applications.

LDM Graphic Series: Lamp Driver Module series for use with custom graphic annunciators.

LCD-80F (Liquid Crystal Display) point annunciator: 80-character, backlit LCD-type fire annunciators capable of displaying English-language text.

NOTE: For more information on Compatible Annunciators for use with the MS-9200UDLS Rev 3, see the following data sheets (document numbers) ACM-8RF (DF-51555), ACS/ACM Series (DF-52378), LDM Series (DF-51384), LCD-80F (DF-52185).

LITESPEED COMPATIBLE ADDRESSABLE DEVICES

All feature a polling LED and rotary switches for addressing.

CP355: Addressable low-profile ionization smoke detector.

SD355: Addressable low-profile photoelectric smoke detector.

SD355T: Addressable low-profile photoelectric smoke detector with thermal sensor.

SD355R: Addressable remote test capable detector for use with D355PL or DNR(W) duct smoke detector housings.


H355HT: Fixed high-temperature detector that activates at 190°F/88°C.

AD355(A): Low-profile, intelligent, “Adapt” multi-sensor detector (B350LP base included).

BEAM355: Intelligent beam smoke detector.

BEAM355S: Intelligent beam smoke detector with integral sensitivity test.

D355PL: Innovair Flex low-flow non-relay duct-detector housing. SD355R included.

DNRW: Innovair Flex low-flow non-relay duct-detector housing, with NEMA-4 rating. Watertight. (Order SD355R separately.)

MMF-300: Addressable Monitor Module for one zone of normally-open dry-contact initiating devices. Mounts in standard 4.0” (10.16 cm.) box. Includes plastic cover plate and end-of-line resistor. Module may be configured for either a Style B (Class B) or Style D (Class A) IDC.

MDF-300: Dual Monitor Module. Same as MMF-300 except it provides two Style B (Class B) only IDCs.

MMF-301: Miniature version of MMF-300. Excludes LED and Style D option. Connects with wire pigtails. May mount in device backbox.

MMF-302: Similar to MMF-300, but may monitor up to 20 conventional two-wire detectors. Requires resettable 24 VDC power. Consult factory for compatible smoke detectors.
CMF-300: Addressable Control Module for one Style Y/Z (Class B/A) zone of supervised polarized Notification Appliances. Mounts directly to a 4.0” (10.16 cm.) electrical box. Notification Appliance Circuit option requires external 24 VDC to power notification appliances.

CRF-300: Addressable relay module containing two isolated sets of Form-C contacts, which operate as a DPDT switch. Mounts directly to a 4.0” (10.16 cm.) box, surface mount using the SMB500.

BG-12LX: Addressable manual pull station with interface module mounted inside.

I300: Fault Isolator Module. This module isolates the SLC loop from short circuit conditions (required for Style 6 or 7 operation).

SMB500: Used to mount all modules except the MMF-301 and M301.

MMF-300-10: Ten-input monitor module. Mount one or two modules in a BB-2F cabinet (optional). Mount up to six modules on a CHS-6 chassis in a BB-6F.

MMF-302-6: Six-zone interface module for compatible conventional two-wire detectors. Mount one or two modules in a BB-2F cabinet (optional). Mount up to six modules on a CHS-6 chassis in a BB-6F.

CMF-300-6: Six-circuit supervised control module. Mount one or two modules in a BB-2F cabinet (optional). Mount up to six modules on a CHS-6 chassis in a BB-6F.

CRF-300-6: Six Form-C relay control module. Mount one or two modules in a BB-2F cabinet (optional). Mount up to six modules on a CHS-6 chassis in a BB-6F.

NOTE: 1) For more information on Compatible Addressable Devices for use with the MS-9200UDLS Rev 3, see the following data sheets (document numbers): AD355 (DF-52324), BG-12LX (DF-52013), CMF-300-6 (DF-52365), CRF-300-6 (DF-60379), CMF/CRF Series (DF-52130), CP355 (DF-52359), D355PL (DF-52398), H355 Series (DF-52356), I300 (DF-52339), MMF-300 Series/MDF-300 (DF-52121), MMF-300-10 (DF-52347), MMF-302-6 (DF-52356), SD355/SD355T (DF-52388). 2) Legacy 300 Series detection devices such as the CP300/CP350, SD300(T)/SD350(T) and older modules such as the M300, M301, M302, C304, and BG-10LX are not compatible with LiteSpeed polling. If the SLC contains one of these devices, polling must be set for standard LiteSpeed protocol. Please consult factory for further information on previous 300 Series devices.

Wiring Requirements

While shielded wire is not required, it is recommended that all SLC wiring be twisted-pair to minimize the effects of electrical interference. Wire size should be no smaller than 18 AWG (0.78 mm²) and no larger than 12 AWG (3.1 mm²). The wire size depends on the length of the SLC circuit. Refer to the panel manual for wiring details.
SYSTEM SPECIFICATIONS

System Capacity
- Intelligent Signalling Line Circuits................................. 1
- Addressable device capacity........................................ 198
- Programmable software zones......................................... 99
- ACS Annunciators .................................................. 32
- ANN-bus devices..................................................... 16

Electrical Specifications
AC Power: MS-9200UDLS Rev 3: 120 VAC, 60 Hz, 3.0 amps.
MS-9200UDLS Rev 3E: 240 VAC, 5 0 Hz, 1.5 amps. Wire size:
minimum 14 AWG (2.00 mm²) with 600 V insulation.

Battery charger capacity: 7 AH - 18 AH batteries. Up to two
18 AH batteries can be housed in the FACP cabinet. Larger
batteries require an external battery charger such as the CHG-
75 or CHG-120, and a separate battery cabinet such as the
BB-26 or NFS-LBB.

Communication Loop: Supervised and power-limited.

Notification Appliance Circuits: Each terminal block pro-
vides connections for two Style Y (Class B) for a total of four
Style Y (Class B) or with an optional ZNAC-92 module con-
verts to four Style Z (Class A) NACs. Maximum signaling cur-
rent per circuit: 2.5 amps. End-of-Line Resistor: 4.7K ohm, 1/2
watt (P/N 71252 UL listed) for Style Y (Class B) NAC. Refer to
panel documentation and Fire-Lite Device Compatibility Docu-
ment for listed compatible devices.

Two Programmable Relays and One Fixed Trouble Relay:
Contact rating: 2.0 amps @ 30 VDC (resistive), 0.5 amps @ 30
VAC (resistive). Form-C relays.

Special Application Non-resettable Power (24 VDC Nom-
inal): Jumper selectable (JP4) for conversion to non-resettable
power output. Up to 1.0 amp total DC current available from
each output. Power-limited.

Special Application Resettable Power (24 VDC nominal):
Jumper selectable (JP6) for conversion to non-resettable
power. Up to 1.0 amp total DC current available. Refer to the
Fire-Lite Device Compatibility Document for listed compatible
devices.

Remote Sync Output: Remote power supply synchronization
output. Nominal special application power: 24 VDC. Maximum
current: 300 mA. End-of-Line Resistor: 4.7K ohm. Output
linked to NAC 1 control. Supervised and power-limited.

Telephone Interface: Unless used with Teldat VISORALARM,
requires dedicated business telephone number with a mini-
mum of 5 volts DC (off-hook voltage). Obtain dedicated phone
line directly from your local phone company. Do not use shared
phone lines or PBX (digital) type phone line extensions.

Cabinet Specifications
Door: 19.26” (48.92 cm.) high x 16.82” (42.73 cm.) wide x
0.12” (.30 cm.) deep. Backbox: 19.00” (48.26 cm.) high x
16.65” (42.29 cm.) wide x 5.20” (13.4 cm.) deep. Trim Ring
(TR-C E): 22.00” (55.88 cm.) high x 19.65” (49.91 cm.) wide.

Shipping Specifications
Weight: 26.9 lbs. (12.20 kg.) Dimensions: 20.00” (50.80 cm.)
high x 22.5” (57.15 cm.) wide x 8.5” (21.59 cm.) deep.

Temperature and Humidity Ranges
This system meets NFPA requirements for operation at 0 –
49°C/32 – 120°F and at a relative humidity 93% ± 2% RH
(noncondensing) at 32°C ± 2°C (90°F ± 3°F). However, the
useful life of the system's standby batteries and the electronic
components may be adversely affected by extreme tempera-
ture ranges and humidity. Therefore, it is recommended that
this system and its peripherals be installed in an environment
with a normal room temperature of 15 – 27°C/60 – 80°F.

NFPA Standards
The MS-9200UDLS Rev 3 complies with the following NFPA
72 Fire Alarm Systems requirements:
- LOCAL (Automatic, Manual, Waterflow and Sprinkler
  Supervisory).
- AUXILIARY (Automatic, Manual and Waterflow) (requires
  4XTMF).
- REMOTE STATION (Automatic, Manual, Waterflow and
  Sprinkler Supervisory) (Where a DACT is not accepted,
  the alarm, trouble and supervisory relays may be con-
  nected to UL 864 listed transmitters. For reverse polarity
  signaling of alarm and trouble, 4XTMF is required.)
- PROPRIETARY (Automatic, Manual, Waterflow and
  Sprinkler Supervisory).
- CENTRAL STATION (Automatic, Manual, Waterflow and
  Sprinkler Supervisory).
- OT, PSDN (Other Technologies, Packet-switched Data
  Network)

Agency Listings and Approvals
The listings and approvals below apply to the basic MS-
9200UDLS Rev 3 control panel. In some cases, certain mod-
ules may not be listed by certain approval agencies, or listing
may be in process. Consult factory for latest listing status.
- UL Listed: S624
- FM approved
- CSFM: 7165-0075:0208
- MEA: 120-06-E
For UL-listed version, see DF-60599.

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For more information, contact FireLite Alarms, Phone: (800) 627-3473, FAX: (877) 699-4105.
www.firelite.com

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We cannot cover all specific applications or anticipate all requirements.
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ISO 9001
CERTIFIED
ENGINEERING & MANUFACTURING
QUALITY SYSTEMS

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