# MS-9200UDLS(E) Rev

## Intelligent Addressable FACP with Built-In Communicator

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Approved with Conditions

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## General

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

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

The MS-9200UDLS Rev 3's quick-remove chassis prote electronics during construction. The backbox can be in allowing field wiring to be pulled. When construction is pleted, the electronics can be quickly installed with ju 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, supervisories, 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) FACPs (Fire Alarm Control Panels).*

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## Features

- Listed to UL standard 864, 9th edition.
- On-board DACT.
- Remote site or local USB port upload/download, using PS-Tools.
- Four (4) Style Y (Class B) NAC circuits, which can be converted to four (4) Style Z (Class A) circuits with optional ZNAC-92 converter module. (Up to 6.0 amps total NAC power when using optional XRM-24B.)
- Selectable strobe synchronization for System Sensor, Wheelock, and Gentex devices.
- Remote Acknowledge, Silence, Reset and Drill via addressable monitor modules or LCD-80F, ANN-80 or Legacy ACS Annunciators.
- ANN-BUS for connection to following optional modules (cannot be used if ACS annunciators are used):
  - ANN-80(-W) Remote LCD Annunciator
  - ANN-I/O LED Driver
  - ANN-S/PG Printer Module
  - ANN-RLY Relay Module
  - ANN-LED Annunciator Module
  - ANN-RLED Annunciator Module alarms only
  - ROME Relay Option Module Enclosure
- ACS/TERM:
  - ACS Annunciators: Up to 32 Legacy ACM Series annunciators (ACM-16AT or ACM-32 series). Cannot be used if ANN-BUS devices are used.
  - Terminal-mode Annunciators: Up to 32 Legacy LCD-80F remote annunciators.

- EIA-232 printer/PC interface (variable baud rate) or circuit board, for use with optional UL-listed printer PI
- Integral 80-character LCD display with backlighting.
- Real-time clock/calendar with automatic daylight s control.
- Detector sensitivity test capability (NFPA 72 compliar
- History file with 1,000-event capacity.
- Maintenance alert warns when smoke detector dust mulation is excessive.
- Automatic device type-code verification.
- One person audible or silent walk test with walk-test l printout.
- Point trouble identification.
- Waterflow (nonsilenceable) selection per monitor poi
- System alarm verification selection per detector point
- PAS (Positive Alarm Sequence) and presignal del point (NFPA 72 compliant).

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

### *SLC LOOP:*

- SLC can be configured for NFPA Style 4, 6, or 7 oper
- SLC supports up to 198 addressable devices per lo 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)

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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.

**PK-CD** Programming software for Windows®-based PC computer (cable not included), available on www.firelite.com.

**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 IPBRKT). 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 sure.

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

### *COMPATIBLE ANNUNCIATORS*

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

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

**ANN-RLED:** Provides alarm (red) indicators for up to 3( zones or addressable points. (See DF-60241).

**ANN-RLY:** Relay Module, which can be mounted insi cabinet, provides 10 programmable Form-C relays. *(Se 52431.)*

**ROME:** Relay Option Module Enclosure. Provides one **RLY** Relay Module already installed. The ROME Serie vides mounting space for one additional Relay Module addressable Multi-module. *(See Installation Sheet PN 5*

**ANN-S/PG:** Serial/Parallel Printer Gateway module prov connection for a serial or parallel printer. *(See DF-5242*

**ANN-I/O:** LED Driver Module provides connections to 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/ACMSeries (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.

**H355:** Fast-response, low-profile heat detector.

**H355R:** Fast-response, low-profile heat detector with rate-of-rise option.

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

**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.

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**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-52383), D355PL (DF-52398), H355 Series (DF-52385), I300 (DF-52389), MMF-300 Series/MDF-300 (DF-52121), MMF-300-10 (DF-52347), MMF-302-6 (DF-52356), SD355/SD355T (DF-52384). 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.

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# SYSTEM SPECIFICATIOI

## System Capacity

- Intelligent Signalling Line Circuits.....
- Addressable device capacity .....
- Programmable software zones .....
- ACS Annunciators .....
- ANN-bus devices .....

## Electrical Specifications

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

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

**Communication Loop:** Supervised and power-limited.

**Notification Appliance Circuits:** Each terminal bloc vides connections for two Style Y (Class B) for a total Style Y (Class B) or with an optional ZNAC-92 modul verts to four Style Z (Class A) NACs. Maximum signalir rent per circuit: 2.5 amps. End-of-Line Resistor: 4.7K oh..., watt (P/N 71252 UL listed) for Style Y (Class B) NAC. Refer to panel documentation and *Fire•Lite Device Compatibility Document* 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 Nominal):** Jumper selectable (JP4) for conversion to 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 minimum 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

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– **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 connected 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 modules 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 ULC-listed version, see DF-60599.

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