



**Fire-Lite<sup>®</sup> Alarms**  
INCORPORATED

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B-100

## LCD-40

**Liquid Crystal Display Fire Annunciator  
for use with MS-9200**

Section: Annunciators

### GENERAL

The **Fire-Lite LCD-40** is a compact, cost-effective, 40 character, backlit LCD Fire Annunciator for use with the MicroScan-9200 Addressable Fire Alarm Control Panel. The LCD-40 is capable of displaying English language text of system point status including: device type, independent point alarm, trouble or supervisory, zone and custom alpha labels programmed into the MS-9200. The LCD-40 also provides system status LEDs to display Power, Alarm, Trouble and Supervisory. Remote control of critical system functions such as: Reset, Silence, Acknowledge and Drill can be accomplished with the LCD-40.

Communications between the MS-9200 and the LCD-40 are accomplished over a serial interface employing the EIA-485 communication standard. Up to 32 LCD-40s may be connected to the EIA-485 circuit. Annunciators may be powered from the host MS-9200 or remote power supplies (requires filtered, regulated power).

### FEATURES

- English language, 40 character (20 characters x 2 lines) backlit, Liquid Crystal Display.
- Control Switches for System Acknowledge, Signal Silence, Drill and Reset with enable key.
- System status LEDs for Power, Alarm, Trouble and Supervisory.
- No programming necessary — LCD mimics the MS-9200 display.
- Displays device type identifiers, individual point alarm, trouble or supervisory, zone and custom alpha labels.
- Time and date display field.
- Aesthetically pleasing, semi-flush mount design.
- Serial EIA-485 interface for reduced installation cost (see reverse side for wiring diagram).
- May be powered by 24 VDC from the host FACP or by remote power supplies (requires filtered, regulated power).
- Up to 32 LCD-40s per MS-9200.
- Plug-in terminal blocks for ease of installation and service.
- Can be remotely located up to 3,000 feet from host control panel.
- Local piezo sounder with alarm and trouble resound.
- **Semi-flush-mounts** to 2-1/8" deep, three-gang electrical box (Fire-Lite P/N 10103 or equivalent); or **surface-mounts** to Fire-Lite SBB-3 surface backbox.



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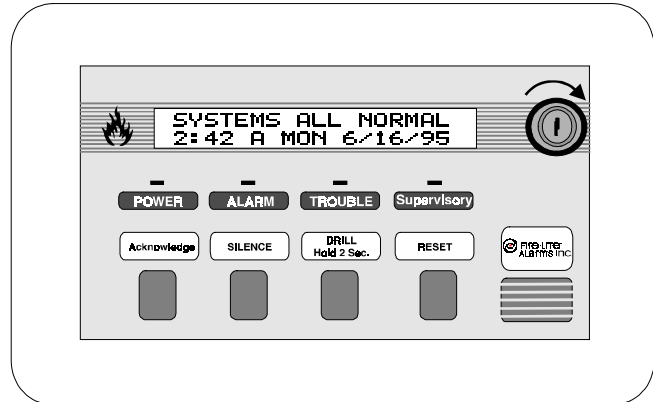


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### OPERATION

The LCD-40 provides the MS-9200 Addressable Fire Alarm Control Panel with low cost point annunciation, displayed in English-language text on a 40 character LCD display. The LCD-40 also provides an array of LEDs to indicate system status, as well as control switches for remote control of critical system functions.

The LCD-40 annunciator provides the MS-9200 with up to 32 remote serially connected annunciators. All field wiring terminations on the LCD-40 use removable, compression-type terminal blocks for ease of wiring and circuit testing.

Communications between the FACP and the annunciators are accomplished over an EIA-485 serial interface, greatly reducing wire and installation cost over traditional systems. Six wires total are required: two for the EIA-485 communications in (twisted-pair), two for the EIA-485 communications return (twisted-pair from last LCD-40 on loop) and two for 24 VDC regulated power. Dip switches control local functions such as: piezo disable, control switches/key-switch disable, transmit/receive mode.

### INSTALLATION

The LCD-40 can be semi-flush mounted to a 2-1/8" deep, three-gang electrical box (Fire-Lite P/N 10103 or equivalent). Alternately, an SBB-3 surface backbox is available for surface-mount applications. A control switch key lock is included to prevent unauthorized use of control switches.

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



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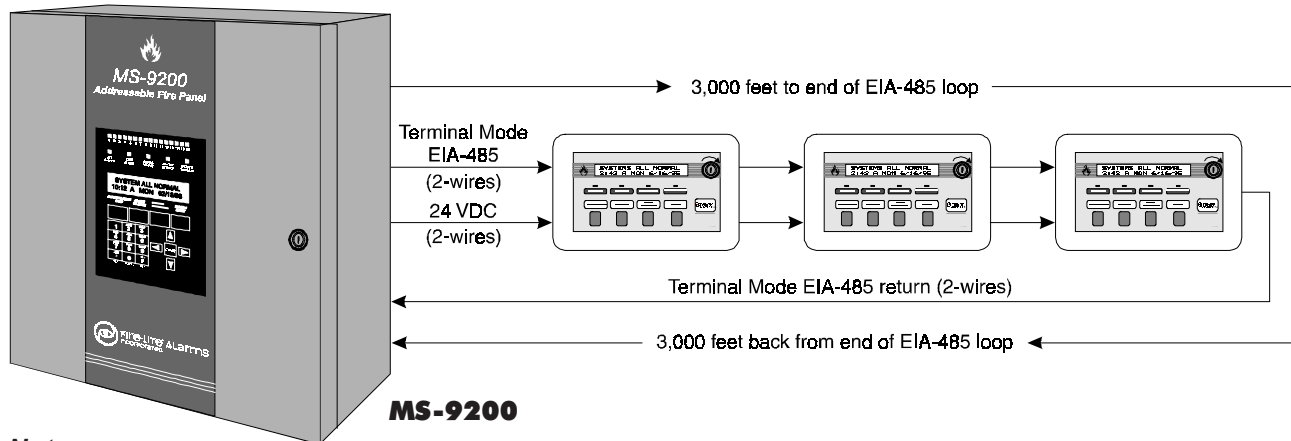


Made in the U.S.A.

## ORDERING INFORMATION

- LCD-40** 40 character, backlit, English language, LCD Fire Annunciator for use with MS-9200 Addressable FACP.
- DIM-485** Display Interface Module (necessary to convert EIA-232 output of MS-9200 to EIA-485 [terminal mode] for use with LCD-40).
- ROM1-MS9200** PROM kit upgrade includes ROM 73750 or greater (necessary to update MS-9200s with software releases prior to 73750 for use with LCD-40).
- 10103** Three-gang electrical box, 2-1/8" deep, for semi-flush-mount applications.
- SBB-3** Three-gang surface backbox for surface-mount applications.

## LCD-40 TERMINAL MODE WIRING



### Notes:

- 1) EIA-485: Maximum of 6,000 feet total cable length from FACP to LCD-40s and back to FACP. Circuit is power-limited.
- 2) Up to 32 LCD-40s may be used on the EIA-485 circuit. The MS-9200 can power a maximum of five LCD-40s. If additional LCD-40s are connected, the Fire•Lite FCPS-24F may be used to supply additional power. (Power supplies used for this purpose must have their negative terminals commoned together).
- 3) Between each LCD-40 are four wires: A twisted-shielded pair for data communications and a pair for 24 VDC power. The return circuit only requires two wires for data communication supervision, wired from the last LCD-40 on the loop.
- 4) Each may have ACK/STEP, SIGNAL SILENCE, DRILL and SYSTEM RESET switches.
- 5) Displays all 198 addressable points of MS-9200.
- 6) No programming required for LCD-40s.

## MOUNTING TO BACKBOX(ES)

**CAUTION!** The LCD-40 can **ONLY** be **semi-flush-mounted** in a three-gang electrical box with a minimum depth of 2-1/8" (Fire•Lite P/N 10103 or equivalent).

The LCD-40 **CANNOT** be mounted in three gangable electrical switch boxes connected together.

**NOTE:** Alternately, the LCD-40 can be mounted to the SBB-3 surface backbox for **surface-mount** applications.

**5-13/16" wide x 4" high x 2-1/8" deep,  
three-gang electrical box  
(Fire•Lite P/N 10103 or equivalent).**

