Fire•Lite Alarms

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LCD-40 Series
Liquid Crystal Display Fire Annunciators for use with MS-9200
Section: Annunciators

GENERAL

The **Fire•Lite LCD-40 Series** are compact, cost-effective, 40 character, backlit LCD Fire Annunciators for use with the **MicroScan-9200** Addressable Fire Alarm Control Panel. The LCD-40 Series consists of two models: the basic LCD-40 and the low-cost LCD-40L. The LCD-40 Series can display 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 Series also provides system status LEDs to display Power, Alarm, Trouble and Supervisory. Remote control of critical system functions (Reset, Silence, Acknowledge, and Drill) can be accomplished with the model LCD-40 only.

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 are included on the model LCD-40 only (shown).
- Both models include system status LEDs for Power, Alarm, Trouble and Supervisory.
- No programming — 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-40 Series annunciators per MS-9200.
- Plug-in terminal blocks for easy installation and service.
- Can be remotely located up to 3,000 feet (914.4 m) from host control panel.
- Local piezo sounder with alarm and trouble resound.
- ***Semi-flush-mounts*** to 2-3/16"/55.5625 mm (minimum) deep, three-gang electrical box (P/N 10103); or ***surface-mounts*** to Fire•Lite SBB-3 surface backbox.

OPERATION

The LCD-40 Series annunciators provide the MS-9200 Addressable FACP with point annunciation, displayed in English-language text on a 40-character LCD display. The LCD-40 Series annunciators also provide an array of LEDs to indicate system status, while the LCD-40 also includes control switches for remote control of critical system functions.

The LCD-40 Series provides the MS-9200 with up to 32 remote serially connected annunciators. All field-wiring terminations on the LCD-40 Series use removable, compression-type terminal blocks for ease of wiring and circuit testing.
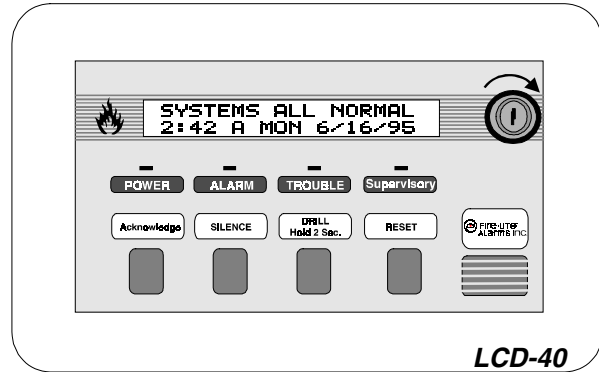
UL S2424   ULC CS635 *(LCD-40L only)*   MEA 16-94-E Vol. III   7165-0075:158   FM

LCD-40

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(L) 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. Annunciators may be powered from the host MS-9200 or remote power supplies (requires filtered, regulated power).

PRODUCT LINE INFORMATION

LCD-40   40 character, backlit, English language, LCD Fire Annunciator with control switches for remote control of critical system functions and key switch lock.

LCD-40L   Low-cost version of above without control switches and key switch lock.

DIM-485   Display Interface Module (needed to convert EIA-232 output of MS-9200 to EIA-485 [terminal mode] for use with LCD-40 Series).

ROM1-MS9200V2.0   PROM upgrade for MS-9200, includes #M9200V2.1 *(consult factory for compatibility with LCD-40)*.

ROM1-LCD40V2.0   PROM upgrade for LCD-40, includes #LCD40V21 *(consult factory for compatibility with MS-9200)*.

10103   Three-gang electrical box, 2-3/16"/55.5625 mm (min.) deep, for semi-flush-mount applications.

SBB-3   Three-gang surface backbox for surface-mount applications.
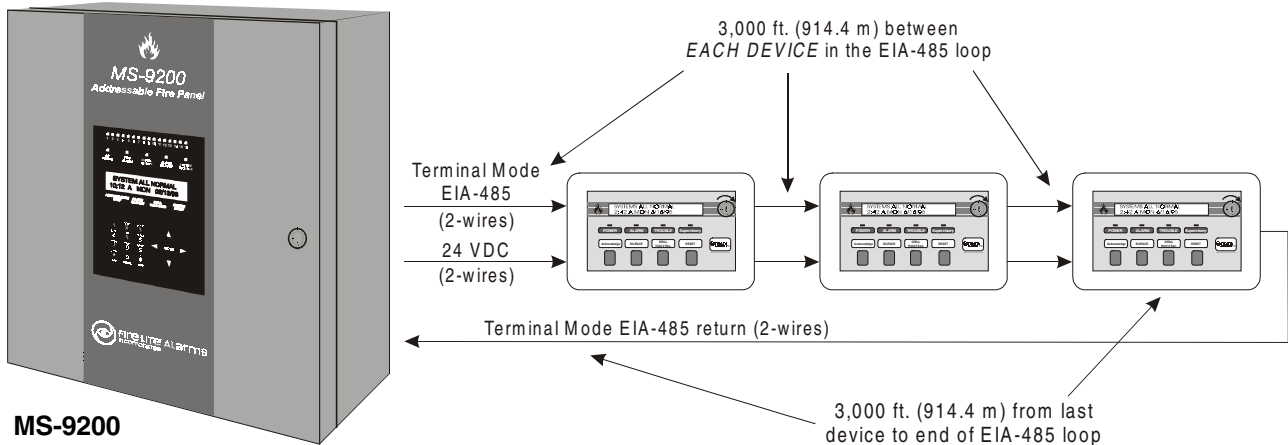
ISO 9001 CERTIFIED
ENGINEERING & MANUFACTURING

Made in the U.S.A.

LCD-40 TERMINAL MODE WIRING

MS-9200

Notes:

1) EIA-485: Maximum of 3,000 ft. (914.4 m) cable length from FACP to LCD-40, 3,000 ft. cable length between each LCD-40 and 3,000 ft. from the last LCD-40 back to the FACP. Circuit is power-limited.

2) Up to 32 LCD-40 Series annunciators may be used on the EIA-485 circuit. The MS-9200 can power a maximum of five LCD-40 Series annunciators. If additional LCD-40 Series annunciators 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 Series annunciator is 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(L) annunciator on the loop.

4) Each model LCD-40 (only) 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-40 Series annunciator.

MOUNTING TO BACKBOX(ES)

CAUTION! The LCD-40 Series annunciators can *ONLY* be *semi-flush-mounted* in a three-gang electrical box with a *minimum* depth of 2-3/16" (55.5625 mm) (Fire•Lite P/N 10103 or equivalent).

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

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

Electrical Installer's Note: This annunciator may not fit easily into a standard 3-gang electrical box if locking clamps are used to secure wiring entering the rear or side knockouts. Only use the TOP or BOTTOM knockouts to bring wiring into a standard 3-gang electrical box.

5-13/16" (147.6375 mm) wide x 4" (101.6 mm) high x minimum 2-3/16" (55.5625 mm) deep, three-gang electrical box (Fire•Lite P/N 10103 or equivalent). 10103 shown at right.