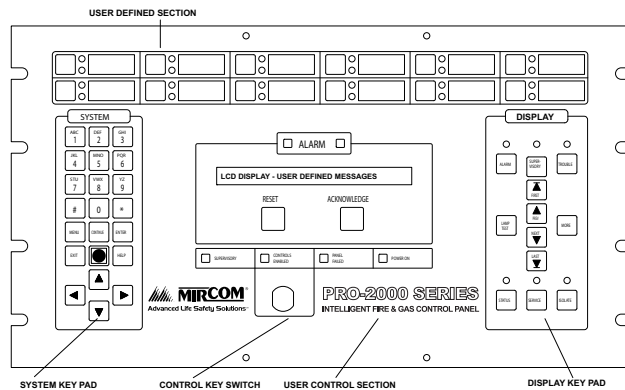## PRO-2000
LCD Annunciator Assembly

Features

- Panel mount or 19-inch rack mount capability

- 2 line by 40 character LCD display

- Local or remote (repeater) installation

- Complies with UL/ULC requirements for scrolling of alarms and troubles

- 12 user-programmable push buttons

- Interchangeable "slide-in" labels

- Control key switch

- Service keypad

Description

The LCD implements the user interface to the PRO-2000 panels using LEDs and a 2-line x 40-character LCD unit.

For X0, X6 Series, the LCD performs the user interface function only.

For , X2 Series, the LCD performs the user interface function, and provides processing and communication circuitry for the panel.

The User Interface

- Mounted on the enclosure door, the LCD provides the user interface for the PRO-2000 Series panel. The LCD Display comprises of an LCD card, a display/control escutcheon with configurable LEDs and push buttons, control key switch and a buzzer. The built-in buzzer draws attention to the panel on occurrence of any detected event. The buzzer sounds intermittently at two different rates: fast for alarms and slow for all other conditions. The display/control escutcheon interfaces between the operator and the panel. There are 4 selections:

- The Display section provides selectable display lists for the events you want to access. By selecting a Mode, Alarm, Supervisory, Trouble, Status, Service or Isolate, the appropriate list appears in the LCD.

- The System section provides selections for system maintenance. For example, enable/disable printing, print the event log, place/remove devices into/from service or isolate mode.

- The User Defined section contains 12 configurable push buttons and 24 status LEDs; one red and one yellow for each push button.

- The User Control section displays events and provides acknowledge and reset features.

- Membrane push button control acknowledge and silence alarms, reset the detection circuits and test the panel display. These controls also enable authorized service personnel to perform service functions. Using the System keypad, the operator can select different maintenance functions such as the event log, backlighting intensity and other maintenance related features.

- The LCD Display features a 2 line by 40 character Liquid Crystal Display (LCD) indicating the status of the panel and all connected input and output devices. When an off-normal condition occurs, the first line displays event occurrence and time, the second line provides a plain language description of the off-normal condition. The text description for the zone or device is user defined.

UL S7010 ULC S7010 USCG 161.002/41/1 ABS 05-MO602743-X CCG Accepted

Catalog Number 4004 • Not to be used for installation purposes.

When a system is first delivered the LCD card has its internal battery jumper, JP6, disabled. Prior to installation move the jumper shunt into position over both pins. If the jumper is missing the panel will annunciate a "Clock Battery Fault" at power up. If the jumper is in, you can remove power and the event log and the clock remain powered.
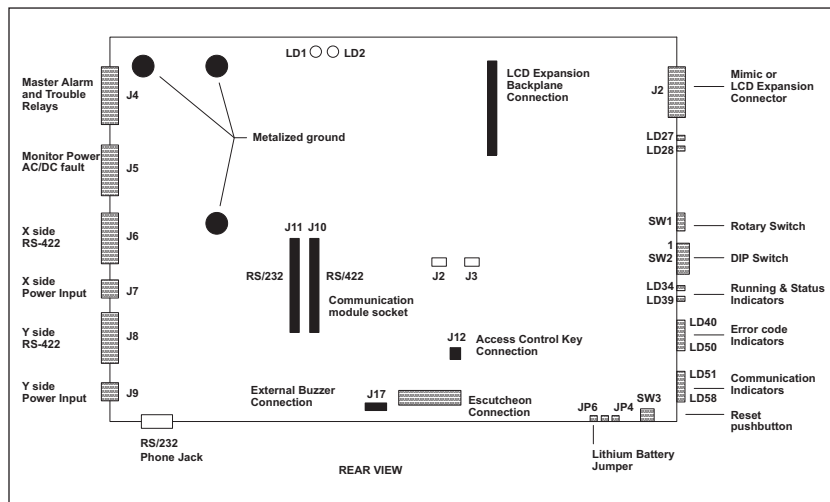
Up to two (2) expansion cards can be added via the LCD backplane. For panel models X0E, X0M, X2E, X2M, X6E, and X6M, the LCD Connector J2 connects the LCD to the Mimic Driver card or the LCD Expander card for additional display/control capabilities.

The LCD has two sockets for adding communication modules. Depending on your configuration, these could be either RS-232 or RS-422 communication modules.
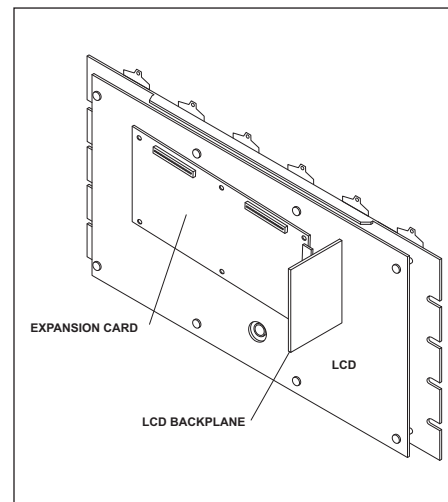
For LCDs used as processing and display units, installing an RS-232 module activates the phone jack allowing LCD software configuration through an external PC, or interfacing to a Printer. Installing an RS-422 module activates data links to other panels

The RS-232 module is not used when LCDs are display units. Installing an RS-422 module activates data links to the MPU or to a Repeater network.

Board Layout

LCD Backplane

Specifications

Electrical Specifications	
Power Requirement Voltage	20 to 28.5 VDC
Standby Current	0.301 A
Common Alarm/Fault Relay Outputs	
Contact Arrangement	2 Form C
Contact Load Rating	0.3 A @ 115VAC 0.3A @ 110VAC 1 A @ 30VAC
RS-422 Communication	
Interface	RS-422 Full-Duplex Serial
Protocol	ADCCP CLASS UN
Maximum Baud Rate	38400
Maximum Cable Length	1.2 Km

RS-232 Communication	
Interface	RS-232 Full-Duplex
Maximum Baud Rate	38400
Maximum Cable Length	20 meters
Dimensions	
Height	10.5" (266.7 mm)
Width	19.0" (482.6 mm)
Depth	1.5" (38.1 mm)

Ordering Information

Model Number	Description
PCA-12898-00	PRO-2000 LCD Annunciator Assembly, UL/ULC
PCA-12898-01	PRO-2000 LCD Annunciator Assembly, Marine
PCA-14104-00	PRO-2000 LCD Backplane, UL/ULC
PCA-14104-01	PRO-2000 LCD Backplane, Marine
PAM-14401-00	Front Panel, PRO-2000 UL/ULC/Marine, English
PAM-14401-01	Front Panel, PRO-2000 UL/ULC/Marine, French

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