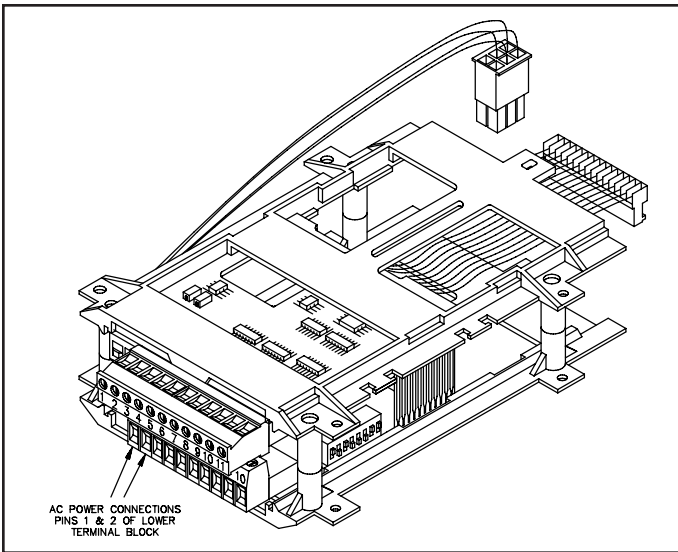# RED LION CONTROLS

MODEL MDPI - MESSAGE DISPLAY INTELLIGENT MODULE FOR USE WITH LARGE MESSAGE CENTER DISPLAYS (LMC10000 & LMC20000)

The Model MDPI Message Display Intelligent Module is a Printed Circuit Board assembly mounted in a carrier which is installed into either the 1x10 or 2x20 Large Message Center Displays *(see Bulletin LMC)*. When an MDPI module is installed in an LMC Display, all programming and operating procedures are the same as a standard Message Display Intelligent (MDI) unit.

Refer to the MDI manual which is included with the MDPI module, for programming and operating instructions. A self-adhesive terminal block label and a DIP switch label are provided, which should be placed near their respective locations in the LMC unit.

Note: The MDPI module will only operate with the LMC Display. Do not connect the module to an RLC Model LDD. The Module is fully compatible with both the 1x10 and 2x20 versions of the LMC.

An MDPI Module can replace an MCPI Module in an LMC display, but the MDPI will require the SFMD software for programming.

AC POWER CONNECTIONS
PINS 1 & 2 OF LOWER
TERMINAL BLOCK

MDPI SPECIFICATIONS

(All specifications are the same as the MDI except those listed below.)

1. **POWER REQUIREMENTS**: AC power is connected to the module, but is switch selected via the LMC driver board; 115/230 VAC (±10%), 50/60 Hz 25 VA 1x10 version, 30 VA 2x20 version (including the model LMC).
2. **DISPLAY**: Module controls the 5x7 dot matrix, Red LEDs of either LMC version.
   LMC10000 1x10 Version: 2.0" (50.8 mm) character height.
   LMC20000 2x20 Version: 1.0" (25.4 mm) character height.
   Note: Vcontrast line is NOT functional and should NOT be used.
9. **CONSTRUCTION**: P.C. board mounted in a plastic carrier.
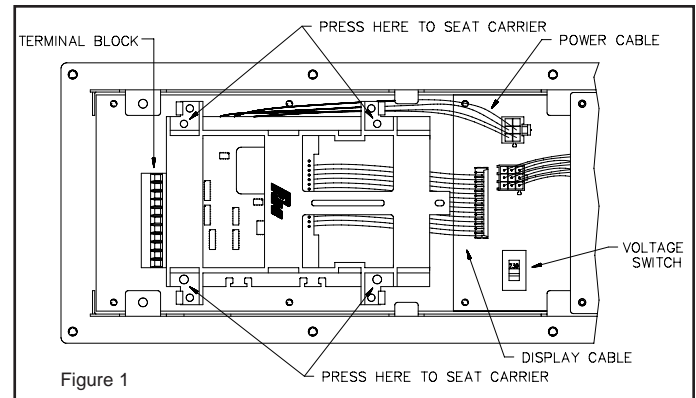11. **WEIGHT**: 0.6 lbs (272g)

SET-UP

To place the MDPI Module into the LMC, first remove the rear cover of the LMC. To do this, unscrew the two captive fasteners and place the MDPI Module on the plastic standoffs. Push on the four posts until the carrier snaps into place.

Note: Power should NOT be applied until the terminal block is plugged into the module, the voltage switch is set to the proper position, AND the module is properly installed into the Large Message Center Display (LMC).

Wire the removable terminal block for the module, then replace the terminal block in the proper position on the module. The power supplied to the module is from the LMC and the proper voltage is selected by setting the voltage switch to either 115 or 230 VAC on the LMC driver board. Connect the display and power cables from the module to the appropriate connectors on the LMC driver board *(see Figure 1)*.

Follow the programming and operating instructions provided in the MDI manual, as required.

Figure 1

ORDERING INFORMATION

MODEL NO.	DESCRIPTION	PART NUMBER
MDPI	Intelligent Module for use with Large Message Center Displays	MDPI1000

Note: This module requires the Apollo Message Display User Software to program messages.

ORDERING INFORMATION For Large Message Center

MODEL NO.	DESCRIPTION	PART NUMBER
LMC1	Large Message Center 1x10	LMC10000
LMC2	Large Message Center 2x20	LMC20000
MB6	LMC/LDD Mounting Brackets	MB600000
ENC7	LMC/LDD NEMA 4/IP65 Enclosures	ENC70000
SHR	LMC/LDD Shroud	SHR10000

ORDERING INFORMATION For Message Display Accessories

MODEL NO.	DESCRIPTION	PART NUMBER
SFMD	Apollo Message Display User Software (3 1/2"; 1.44 M)	SFMD0
MCCA	AC Communications Adapter	MCCA0000
GCM232	Serial Converter Module RS-232	GCM23201
APS01	+12 VDC Unregulated Power Supply, 115 VAC	APS01000
APS02	+12 VDC Unregulated Power Supply, 230 VAC	APS02000
SKT1	8-Pin Socket	SKT10000
—	DIN Rail Mount, 8-Pin Octal	SKTDIN00