

MLC-16R LOGIC CONTROLLER (SPLC)

Abba Logic

PLC Based Access Control

So what's a SPLC? It's a fully Programmable Logic Controller (SPLC) with distributed intelligence. Each controller has its own processor and makes its own decisions. Ladder logic programming is stored in every controller to perform as a Smart (S)PLC. It's flexible, dependable and easy to program.



The advantages here are simple. Because every controller has its own processing power, the system can continue to grow without losing performance. This also brings the single point of failure down to one controller.

Equipment can be spread out into multiple wiring closets so home run cabling is not required. This can save tens of thousands of dollars during installation.

The Echelon communications network provides fast peer-to-peer communications between controllers; where one controller can control other controllers on the same network. The family of products includes a variety of

- It's a PLC, no it's better than a PLC. It's a SPLC.

MAIN FEATURES

The MLC-16R supports 16 single-pole, double throw Form-C contacts rated at 120 VAC, 30 VDC @ 6 amps. The rugged construction provides 5 amp fusing for every relay with traces sized for 10 amps. 125 VAC. LED status indicators provide visual status of the point. Up to 6 controllers can be rack mounted in the ENC-RM enclosure (Provided Separately).

All Points are programmable and can be used to activate or trigger other points. Program information is stored in non-volatile flash memory. More than 500 instructions are allowed. Programming structure is drag-n-drop full function ladder logic with over 50 different ladder commands. The System configuration is written to flash ROM. The Real-Time clock provides for timing down to the second. If for some reason the controller is unable to transmit the events to the host PC the controller's FIFO buffer will store the last 800 transactions.

In short, this is an Echelon PLC relay controller.

- ◆ 16 Single-Pole Double Throw Form-C Contacts
- ◆ Contacts Rated @ 250VAC, 30VDC 6 Amps
- ◆ Individually Fused at 5 Amps
- ◆ LED Status indicators
- ◆ Stand Alone Processor
- ◆ Programming Stored in Flash
- ◆ Lon-Talk FT - 78KBPS
- ◆ Peer-to-Peer Control
- ◆ Rack Mount Design
- ◆ Graphical Ladder Programming
- ◆ IP or USB Connectivity
- ◆ Real-Time Clock
- ◆ 12 or 24vdc Power
- ◆ UL 294 Listed

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Part Numbers for Ordering	
MLC-16R	MLC-16R Relay Controller (SNVT Version)
ENC-RM-Wall	18" x 27" x 8.5" Wall Mount Enclosure with Rack
ENC-RM-19	19" Rack rails with BP-6 Cage
PWR-24V-100W	24 VDC 100 Watt Power Supply
PWR-24V-240W	24 VDC 240 Watt Power Supply
LT-IP	Lon-Talk to Ethernet Adapter
LT-USB	USB Adapter



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Specifications:

Power

- ◆ 12-30 VDC @ 640 mA Max
- ◆ 12-24 VDC when powered by Battery
- ◆ 3.5 VDC @ 350 mA Memory Bat
- ◆ Allocate 3 amps per rack of 6 adapters

Outputs

- ◆ 16 Single-Pole Double Throw Form-C Contacts @ 120VAC or 30VDC, 6 Amps
- ◆ Individually Fused @ 5 Amps
- ◆ LED Status Indicators
- ◆ Peer-to-Peer Communications
- ◆ Common power bus on relays 1-8 and relays 9-16

Data

- ◆ 78KBPS Free Topology twisted pair transceiver using Echelon Lon-Talk Protocol provide Host communications and Peer-to-Peer communications.
- ◆ SNVT Support

Operating Temperature

- ◆ -20° to 85° C
- ◆ -4° to 150° F
- ◆ 95% Humidity (non-condensing)

Dimensions

- ◆ PCB Board, 4.5" W x 11" H x 1" D
- ◆ ENC-RM 16" W x 16" H x 6.75" D

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Notice: MAC-4R-NV specifications are subject to change without notice