

VUANCE's MLC-16R is a fully Programmable Logic Controller (PLC) with distributed intelligence. Each controller has its own processor and makes its own decisions. Ladder logic programming is stored in every controller so you might call it 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.

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 include a variety of input and output controllers fully programmable and fully compatible with its sister product, the MAC-4R Access Controller.



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 7 controllers can be rack mounted in the ENC-RM enclosure.

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 ladder commands. The system battery maintains a transaction buffer and time for a minimum of 6 months on power failure. The real-time clock provides for timing down to the second. If, for any reason, the controller is unable to transmit the event to the host computer, the controller's FIFO buffer will store up to 800 transactions.

- 16 Single-pole double throw Form-C contacts
- Individually fused at 5 Amps
- LED status indicator light
- Stand alone processor
- Graphical ladder logic programming
- Program stored in flash memory
- Communications via LonTalk® 78 KBPS bus
- Star, loop or bus topologies
- Peer-to-peer control
- Rack mount design
- Plug-in connector blocks
- Real-time clock
- UL registered component construction

Electronic Access Control

MLC-16R

MASC Logic Controller (SPLC)

Specifications

Power

12-30 VDC
70 ma base current
35 ma per activated output
653 ma maximum draw
Memory backup - 6 months

Outputs

16 Single-pole double throw Form-C contacts rated at 120 VAC or 30 VDC, 6 amps
Individually fused at 5 amps
LED status indicators
653 ma Maximum draw
Memory backup - 6 months

Data

78 KBPS Free Topology twisted pair transceiver using the LonTalk protocol provides communications to host computer as well as peer-to-peer communications between control panels

Termination

Minimum 24 AWG stranded wire
Maximum 14 AWG stranded wire

Operating Temperature

-20° to 85° C
-4° to 150° F

Dimensions

PCB Board, 4" W x 11" H x 1" D
Overall with connectors,
4.5" W x 11" H x 1" D

Parts and Ordering Information

MAC-4R Controllers	
MLC-16R	MLC-16R Rack mount Relay Adapter w/ MPU-16R
MPU-16R	Processor Unit for 16R
MLC-16R-PCB	MLC-16R (PCB only)
MAC-4R Components	
ENC-RM	Enclosure for 32i and 16R (7 units per)
PWR-RM	24 VAC 4-AMP DC Power Supply for Rack
LT-SA-10	LonTalk Serial Adapter
LT-EA	LonTalk Ethernet Adapter
LT-RTR	LonTalk Router



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