MAC-4R-NV MASC ACCESS CONTROLLER

Abba Logic

PLC Based Access Control



Imagine an easy to use Access Control panel, with all the power of a PLC. The MAC-4R is an intelligent distributed processing Access Control panel with programmable ladder logic control functions. The integrated Echelon communications scheme brings IP connectivity, reliability, high addressability, and interpanel communications.

Readers, inputs, and outputs can be configured in any shape or form to meet special conditions for opening a door. Sally ports and man traps are easy to program. The controllers can even be programmed for special actions based on card holder activity. This is all done using Echelon's Open Technology Protocol. Do you want Standard hardware platform? Echelon brings multiple manufactures together.

So whether it's time zone controlling a door to open at a certain time of day, or operating under the demanding controls of our US State and Federal prisons, the MAC-4R controller has what it takes to do the job.

MAIN FEATURES

Up to 4 readers, 16 inputs, and 8 outputs can be connected to one MAC-4R Access Controller. Multiple controllers can be programmed to talk to one another through our use of Echelon's Lon-Talk peer-to-peer communications. Bus, Star, or Loop topologies are all supported with up to 63 devices (panels) on one network segment. If one of those devices is a repeater you can change topology types and add another 63 devices. A project can start small with 4 or 8 doors and continue to expand into thousands of doors.

The controllers can be connected to one PC or Multiple PC's through a local or wide area network connection. Connection options include IP (TCP/IP), USB, and Rs232.

Real-time point status allows the user to see the true state of every point at all times.

The MAC-4R is one of the only Echelon based Access Control panel with PLC functionality on the market.

- 52.000 Card Holders
- Threat Levels and Visitor Cards
- 4 Wiegand based Readers
- Multiple bit-patterns supported
- Mifare Card Support
- FIPS 201 Card Support
- CAC, TWIC Card Support
- Supplies 5 or 12vdc to Readers
- Reader/Pin use by Time of Day
- 16 Programmable Inputs
- 2, 3, or 4-State Supervision
- 8 Five-amp Output Relays
- 16 Solid-state Sinking Outputs
- Star, Loop, or Bus Topologies
- Ladder logic Programming
- IP or USB Connectivity

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Part Numbers for Ordering	
MAC-8R-NV	(2) MAC-4R in 8 door Enclosure (SNVT Version)
MAC-4R-NV	MAC-4R complete with Enclosure (SNVT Version)
MAC-4R-NV-PCB	MAC-4R PCB Board Only
PWR-24	24VDC – 2.5 Amp Power Supply
PWR-16.5	16.5 VAC Power Transformer
LT-EA-10	iLon-10 Ethernet Adapter
LT-USB	USB Adapter
ENC-4R	Enclosure Only for MAC-4R
ENC-8R	Enclosure Only for (2) MAC-4R



ABBA LOGIC LLC 3816 - 15th St, Racine, WI 53405 Tel: (262) 634-4566 www.abbalogic.com

Specifications:

Power

- 16-28 V @ 1 Amp Max (AC or DC)
- 12 VDC when powered by Battery
- 3.5 VDC @ 350 mAH Memory Bat
- Supplies 5 or 12 VDC to Readers

Outputs

- 4 Wiegand based Readers
- 4 Wiegand format Keypads (8-Bit)
- 16 Programmable Inputs
- 1 Panel Tamper Input
- 2, 3, or 4-State Input Supervision
- 8 Five-amp Form-C Output Relays Rated at 120 VAC or 30 VDC, 6 Amps Fused at 5 Amps
- Supplies 5 or 12vdc to Readers
- 16 Solid-state Sinking Outputs for LED or Pilot Relay support, 0-12V
 10 samples per second

Data

- 78KBPS Free Topology twisted pair transceiver using Echelon Lon-Talk Protocol provide Host communications and Peer-to-Peer communications.
- Standard Wiegand Bit Structure for 26, 32, 35, 37, 40, 48, and 75 bit cards.
- Mifare Card Support
- FIPS 201 Card Support
- CAC, TWIC Card Support

Operating Temperature

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

Dimensions

- PCB Board, 9.25"W x 6.75"H x 1" D
- 4R Enclosure 15.25" W x 18" H x 4.75" D
- 8R Enclosure 18" W x 29.5" H x 4.75" D

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