

The Vicon Access Control (VAX) system consists of a dedicated Vicon Access Control Server and the edge Controller(s). The Server contains the operating system, database engine, web server, application software and configuration data. The Controller communicates back to the Server over the network and provides an interface to readers, relay outputs, door locks, etc.

Vicon offers an elevator controller that is used to incorporate elevator access into the VAX system. It provides control of up to 8 floors (4 cabs). The controller module is housed in a metal enclosure that can accept up to 7 expanders, for a total of up to 64 floors. Additionally, expanders are available in their own enclosure if they need to be installed elsewhere. It supports up to 2 readers and four cabs per master controller. LED indicators provide system status. The expander boards provide dry contact inputs and outputs.

The firmware on the board supports elevator technology. Based on rules defined in the VAX system setup, access to an elevator and/or which floors can be accessed by any individual can be controlled. The readers connect to the elevator controller and in turn control the elevator floors through the boards attached to it.

## Product at a Glance

- ▶ Elevator master controller
- ▶ Controls up to 8 floors
- ▶ Expanders available to provide up to 64 floors
- ▶ Communicates using RS-485 protocol
- ▶ Powered by PoE
- ▶ Housed in metal enclosure
- ▶ Customizable holiday user groups and holiday setup

SPECIFICATIONS

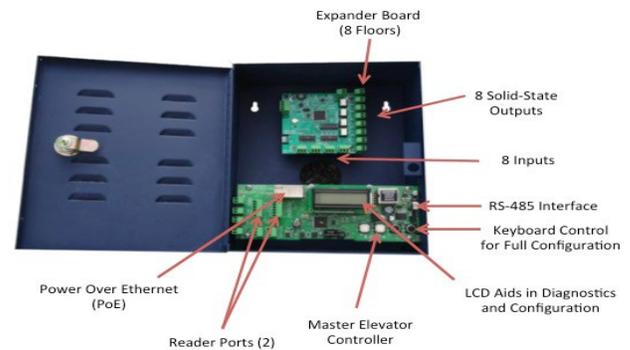
Controller Hardware

<b>Processor:</b>	32-bit microprocessor based
<b>Power:</b>	Supply: 802.3af PoE (up to 15.4 W)/PoE+ Reader: 12 VDC, 250 mA per port Auxiliary Output: 12 VDC 200 mA (for expander boards)
<b>Network:</b>	Speed: 10/100 Mbps Modes: Static or DHCP
<b>I/O on Expander:</b>	8x inputs; 8x solid state outputs
<b>Readers:</b>	Reader Port: 2x Wiegand (D0, D1); 1 per cab Formats: magnetic stripe, biometric, bar code and Wiegand
<b>User Interface:</b>	LEDs: 2x power indicator; 2x reader data flow indicator; 1x communication status; 2x Ethernet status indicator; 1x heartbeat LCD Display: 1x 16 channel; 2-line LCD with backlight Push Buttons: 4x tactile switch (keyboard for data entry) Sound: 1x 90 db Piezo
<b>Support:</b>	4 cabs per master controller Up to 64 floors per master controller (with expander boards) 2 readers Button or non-button sensing 256 user time zones; 50 user holiday time zone groups, 50 holidays each 64 floor time zones 8 floor holiday time zone groups, 50 holidays each Configurable photo tamper sensor
<b>Protection:</b>	Configurable photo tamper sensor
<b>Communications:</b>	RS-485 protocol
<b>Time Keeping:</b>	Date/Time: 1x on-board real-time clock (no battery required, maintains up to 1 month)
<b>Storage:</b>	50,000 users; 50,000 events; on-board

Mechanical & Environmental

<b>Dimensions:</b>	W: 11.42 in. (290 mm); H: 17.13 in. (435 mm); D: 2.95 in. (75 mm)
<b>Weight:</b>	4.1 lb (1.9 kg)
<b>Construction:</b>	Metal enclosure
<b>Operating Temperature:</b>	32 - 122° F (0 - 50° C)
<b>Operating Humidity:</b>	10% to 90% relative humidity, non-condensing
<b>Approvals:</b>	ETL listed (conforms to UL 294); certified to CSA-22.2 no. 205

Elevator Controller Diagram



ORDERING INFORMATION

Description	Model Number
ELEVATOR CONTROLLER; includes 8 floor modules; complete in metal enclosure; accepts up to 7 expanders to control 64 floors	VAX-ELV-STR
8 FLOOR/IO EXPANDER; for elevator and I/O controller; in metal enclosure	VAX-IO-EXP8
16 FLOOR/IO EXPANDER; for elevator and I/O controller; in metal enclosure	VAX-IO-EXP16
8 FLOOR/IO EXPANDER; for elevator and I/O controller; no enclosure	VAX-IO-EXP8-PCB
Converts controller to wireless network	VAX-WIFI-ABLY
Module to convert lock 12 VDC output to dry contact output	VAX-MOD-DRY
Module to convert lock power from 12 VDC 500 mA to 24 VDC 250 mA	VAX-MOD-24
Module to expand memory; required for anti-passback	VAX-MOD-MEM

Data Sheet Number: V274-30  
Dated: 6/2016

Vicon Data Sheet Part Number: 8009-7274-30-02  
Specifications subject to change without notice.

Vicon and their logos are registered trademarks of Vicon Industries Inc.  
Copyright © 2016 Vicon Industries Inc. All rights reserved.



