VICON ACCESS CONTROL DOOR CONTROLLERS







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 uniquely designed over the door controllers. These controllers are offered in single-door or two-door versions. Their patent-pending single-door design offers Request to Exit (REX) motion sensor, on-board communications, back-up battery and removable terminal blocks for ease of installation.

The controllers provide LED indicators for system status and an LCD display for system diagnostics. Configurable dry contact inputs and relay outputs are supported. The controllers support 2 readers.

★ Product at a Glance

- ▶ Single-door and two-door models
- Versatile mounting options include convenient over the door location or out of sight electrical rooms
- ▶ Integrated PIR sensor
- ▶ Unique built-in Request to Exit (REX) on select models
- Single-board design provides status LEDs, embedded REX sensor, on-board communications, back-up battery and removable terminal blocks
- ▶ Unlimited number of door time zones
- ▶ Customizable holiday user groups and holiday setup
- ▶ Powered by PoE

VICON ACCESS CONTROL DOOR CONTROLLER



SPECIFICATIONS

Controller Hardware

Processor: 32-bit microprocessor based

Power: Supply: 802.3af PoE/PoE+ (provides up to 20 W)

Lock: Solid state 12 VDC, 500 mA/24 VDC,

250 mA (with optional converter) Auxiliary Output: 12 VDC 200 mA

Network: Speed: 10/100 Mbps Modes: Static or DHCP

MAC: Unique

I/O: Lock Relay: 1x wet contact solid state

Auxiliary Relays: 2x dry contract solid state (24 VDC, 500 mA limit)

Inputs: 4x supervisor or digital (REX, door contact, HDCP opener, auxiliary)

Reader Port: 2x Wiegand (D0, D1, BUZ, LED,

VCC, GND)

User Interface: LEDs: 2x power indicator; 2x reader data flow

indicator; 3x relay status indicator; 2x Ethernet status indicator; 2x on-board

info; 2x off-board info (PIR) LCD Display: 1x 16 channel; 2-line LCD with backlight

Push Buttons: 4x tactile switch Sound: 1x 90 db Piezo

Integrated Motion: Passive PIRs: 5.0 m detection performance

94° (H)/82° (V) detection area 64 detection zones

170 uA consumption Tricolor LED (red, green, orange) **Protection:** PoE: in-rush current limit/overall current limit

Over-Current: Strike, relays, 12 VDC output

Surge: Strike, readers, inputs Tamper: Photo tamper sensor

Time Keeping: Date/Time: 1x on-board real-time clock

(no battery required, maintains up to 1 month)

Memory: Flash Memory: 8.0 Mb

Housing and Back Plate: Molded ABS plastic; removable cover for quick

access; flat surface mount back plate with cabling

port

Options: 24 VDC Converter: converts 12 VDC to 24 VDC

Dry Contact Converter: converts wet to dry

contact

Expansion Port: supports WiFi, serial, extra memory, 1/Os for future expansion

Mechanical & Environmental

Dimensions: W: 10.0 in. (254 mm); H: 2.0 in. (51 mm);

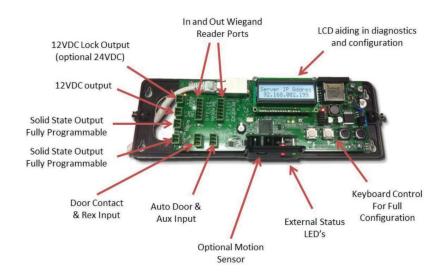
D: 3.25 in. (83 mm) 0.9 lb (0.4 kg)

Weight: 0.9 lb (0.4 kg)

Operating Temperature: 32 - 122° F (0 - 50° C)

Operating Humidity: 10% to 90% relative humidity, non-condensing

Controller PCB Diagram



Data Sheet Number: V274-20 Dated: 9/2015

Vicon Data Sheet Part Number: 8009-7274-20-00 Specifications subject to change without notice.



VICON ACCESS CONTROL DOOR CONTROLLER



ORDERING INFORMATION

Description	Model Number
SINGLE DOOR CONTROLLER; integrated PIR/REX; supports back to back readers; black enclosure	VAX-1D-REX
SINGLE DOOR CONTROLLER; without integrated PIR/REX; supports back to back readers; black enclosure	VAX-1D
TWO DOOR CONTROLLER; integrated PIR/REX; supports back to back readers; black enclosure	VAX-2D-REX
TWO DOOR CONTROLLER; without integrated PIR/REX; supports back to back readers; black enclosure	VAX-2D
TWO DOOR KIT; includes 1 two-door controller mounted in a steel vented and lockable enclosure	VAX-2D-KIT
FOUR DOOR KIT; includes 2 two-door controllers mounted in a steel vented and lockable enclosure	VAX-4D-KIT
SIX DOOR KIT; includes 3 two-door controllers mounted in a steel vented and lockable enclosure	VAX-6D-KIT
EIGHT DOOR KIT; includes 4 two-door controllers mounted in a steel vented and lockable enclosure	VAX-8D-KIT
Options	
BACKING PLATE; for mounting on concrete walls	VAX-BK-BOX
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

