

Sales Alert

Vicon Announces the Introduction of Its New VAX Trove Controllers

This newly released variation of our multi-door controllers now features a built-in power supply and a reliable Altronix enclosure.



This Trove controller includes the same dependable VAX Multi-Door Kit as before, now enhanced with cost-effective and robust features such as a built-in power supply, well-known Altronix enclosure, expanded design to control multiple installations, up to sixteen doors and more. This new design was introduced to facilitate new and retrofit access control installations, thereby reducing time and labor.

Product at a Glance

- ▶ Altronix Enclosure
- ▶ Built-In Power Supply
- ▶ Expanded Design
- ▶ Backup Battery (customer supplied)

Altronix Enclosure

The enhanced lockable steel enclosure provided by Altronix delivers efficient and scalable designs for optimum performance. Numerous knockouts holes allow for a multitude of installation options.



Built-In Power Supply

Rather than having to calculate your power requirements and source your own power supply, the Trove controller includes a built-in power supply to simplify installation and reduce costs. The eFlow series is a high-quality power supply made by Altronix, a global leader in security power solutions.



Expanded Design

The Trove controller leverages the unique design of VAX-Multi-Door Kit which supports up to 8 doors using one Master Controller with a single IP connection. By providing a sufficiently rated power supply and enclosure space, now 2 VAX-Multi-Door Kits with eight 2-door expander boards are conveniently housed in one unit to support up to 16 doors using 2 IP connections. An 8-door model is also available.

These kits are valuable in simplifying installations for larger setups and are ideal for applications in which security, space, time and budget are important considerations.



Backup Battery

This Trove controller also features a convenient design with a port and ample space for a backup battery connection if needed. Users can be thoroughly prepared for any situation in which the main power goes down, such as power outages. Backup battery is customer-supplied.



Ordering Information

Model Number	Product Code	Description
VAX-TROVE-8DR	10356-30	Eight-door controller; includes 1 master controller board, 4 two-door expander boards and a 12 VDC @ 6A power supply in an Altronix Trove1 steel lockable enclosure
VAX-TROVE-16DR	10356-35	Sixteen-door controller (2 eight-door controllers); includes 2 master controller board, 8 two-door expander boards and a 12 VDC @ 10A power supply in an Altronix Trove2 steel lockable enclosure
VAX-TROVE-32I/O	10356-40	Thirty-two I/O kit; includes 1 master controller board, four (4) 8-I/O expansion boards and a 12 VDC @ 6A power supply in an Altronix Trove 1 lockable enclosure.
Accessories		
VAX-TROVE-8DR / VAX-TROVE-16DR / VAX-TROVE-32I/O		
VAX-MOD-DRY	10362-00	Module to convert lock 12 VDC output to dry contact output
VAX-MOD-24	10362-05	Module to convert lock 12 VDC output to 24 VDC 250 mA
VAX-MOD-MEM	10362-10	Expansion memory module

Specifications

Controller Hardware	VAX-TROVE-8DR	VAX-TROVE-16DR	VAX-TROVE-32I/O
Hardware Components:	1x VAX-MDK Master; 4x VAX-EXP-2D; 1x Trove 1 enclosure; 1x eFlow6NB power supply	2x VAX-MDK Master; 8x VAX-EXP-2D; 1x Trove 2 enclosure; 1x eFlow102NB power supply	1x VAX-MDK Master; 4x VAX-IO-EXP8-PCB; 1x Trove 1 enclosure; 1x eFlow6NB power supply
Processor:	32-bit microprocessor based		
Power:	Supply: eFlow6NB. Input: 120 VAC, 60 Hz, 3.5 A; Output: 12 VDC @ 6 A. Supervised fire alarm disconnect (NO/NC trigger), short circuit and overload protection and AC Fail supervision. Port for battery backup with built-in charging for standard 12 VDC 7 Ah dry cell battery (not included).	Supply: eFlow102NB. Input: 120 VAC, 60 Hz, 3.5 A; Output: 12 VDC @ 10 A. Supervised fire alarm disconnect (NO/NC trigger), short circuit and overload protection and AC Fail supervision. Port for battery backup with built-in charging for standard 12 VDC 7 Ah dry cell battery (not included).	Supply: eFlow6NB. Input: 120 VAC, 60 Hz, 3.5A; Output: 12 VDC @ 6 A. Supervised fire alarm disconnect (NO/NC trigger), short circuit and overload protection and AC Fail supervision. Port for battery backup with built-in charging for standard 12 VDC 7 Ah dry cell battery (not included).
Communication:	Between Master controller and VAX web server: 1x Ethernet 10/100 Mbps. Between Master controller and VAX-EXP-2D: RS-485 2-wire (daisy chain or star)		
Network:	Speed: 10/100 Mbps Modes: Static or DHCP MAC: Unique Encryption (panel-server): 256 bit AES option 1 NIC port	Speed: 10/100 Mbps Modes: Static or DHCP MAC: Unique Encryption (panel-server): 256 bit AES option 2 NIC ports	Speed: 10/100 Mbps Modes: Static or DHCP MAC: Unique Encryption (panel-server): 256 bit AES option 1 NIC port
I/O:	Inputs: 24x supervised or digital (door contact, exit button, external REX, etc); 8x Wiegand reader; up to 500 ft (152 m). Outputs: 8x lock relays (12 VDC, 500 mA power per lock); 16x solid state relays (30 VDC, 1 A limit per relay); up to 500 ft (152 m).	Inputs: 48x supervised or digital (door contact, exit button, external REX, etc); 16x Wiegand reader; up to 500 ft (152 m). Outputs: 16x lock relays (12 VDC, 500 mA power per lock); 32x solid state relays (30 VDC, 1 A limit per relay); up to 500 ft (152 m).	Inputs: Up to 32 dry contact ports (shared common between ports 1/2, 3/4, 5/6, 7/8); up to 500 ft (152 m) Outputs: Up to 32 configurable ports, (TVS circuit limits 30 V) 500 A, normally open; up to 500 ft (152 m) Sound: Piezo buzzer
Readers:	Reader Port: 8x Wiegand	Reader Port: 16x Wiegand	N/A
User Interface:	LED indicators: 5x power; 8x reader; 1x network; 5x heartbeat; 24x relay output; 5x on/off line; 2x RS-485 status; 4 input received LCD Display: 2-line 16-character Sound: Piezo buzzer	LED indicators: 10x power; 16x reader; 2x network; 10x heartbeat; 48x relay output; 10x on/off line; 4x RS-485 status; 8 input received LCD Display: 2-line 16-character Sound: Piezo buzzer	LED indicators: 5x power; 1x network; 5x heartbeat; 24x relay output; 5x on/off line; 2x RS-485; 4 input received LCD Display: 2-line 16-character

Specifications continued

Controller Hardware	VAX-TROVE-8DR	VAX-TROVE-16DR	VAX-TROVE-32I/O
Schedules:	Unlimited door time zones (20 zones per time zone); 256 user time zones; 32 one-time special event door time zones (single zone); 50 door/user holiday groups; supports input time zones; supports output time zones		Output: 64 output time zones, 5 zones (11 boundaries) per day; 16 output holiday time zones, 2 zones (5 boundaries) per day. Input: 16 input time zones, 5 zones (5 boundaries) per day; 16 input holiday time zones, 2 zones (5 boundaries) per day.
Protection:	Over-current		
Time Keeping:	Date/Time: 1x on-board real-time clock (no battery required, maintains up to 1 month); automatic DST switch		Maintains up to 1 month; no battery required; automatic DST switch
Memory:	Flash Memory: 8.0 Mb		
Housing and Backplane:	Steel (16 AWG) powder-coated lockable enclosure; THC1 backplane includes standoffs for eFlow6NB power supply and MDK controllers. 9x 1/2"-3/4" combination knockouts; 1x 1.5" knockout	Steel (16 AWG) powder-coated lockable enclosure; THC2 backplane includes standoffs for eFlow102NB power supply and MDK controllers. 16x 3/4"-1" combination knockouts; 1x 2" knockout	Steel (16 AWG) powder-coated lockable enclosure; THC1 backplane includes standoffs for eFlow6NB power supply and MDK controllers. 9x 1/2"-3/4" combination knockouts; 1x 1.5" knockout
Options:	24 VDC Converter: converts 12 VDC to 24 VDC Dry Contact Converter: converts wet to dry contact Expansion Port: supports serial, extra memory, I/Os for future expansion		
Storage:	50,000 events stored in case of network failure		

Mechanical & Environmental	VAX-TROVE-8DR	VAX-TROVE-16DR	VAX-TROVE-32I/O
Dimensions:	W: 14.5 in. (368 mm); H: 18.0 in. (457 mm); D: 4.62 in. (117 mm)	W: 21.75 in. (546 mm); H: 27.25 in. (692 mm); D: 6.5 in. (165 mm)	W: 14.5 in. (368 mm); H: 18.0 in. (457 mm); D: 4.62 in. (117 mm)
Weight:	11.8 lb (5.35 kg)	29.1 lb (13.2 kg)	11.8 lb (5.35 kg)
Operating Temperature:	32 - 120° F (0 - 49° C)		
Operating Humidity:	10% to 85% relative humidity, non-condensing		
Approvals:	UL294; CE		UL294; ULC S319-05; CE
Country of Origin:	Canada		

Contact your regional sales representative or visit vicon-security.com for more information.