VertX® V300 Output Monitor Interface

Avigilon™ Access Control Manager (ACM) supports open field hardware from HID™ Global allowing organizations to leverage investments in non-proprietary field hardware, with retrofit programs available for industry standard door hardware and card readers, including contact/contactless smart card, proximity, magnetic stripe and barcode.

The HID VertX V300 output control interface contains 12 latching Form-C relays, which can connect up to 12 devices controllable by simple contact closures, such as logic inputs for process equipment, HVAC and elevator control panels, CCTV switchers, etc. Loads exceeding 2A @ 30 VDC should be controlled via interposing relays. The V300 features on-board flash memory, enabling program updates to be downloaded via the network. The V300 connects to the V1000 through a high speed RS-485 network. The V1000 communicates with the Access Control Manager system via industry standard TCP/IP protocol over 10/100 Mbps Ethernet or the Internet. This architecture minimizes the impact on corporate LANs, by using only one TCP/IP address for every 32 Interfaces, and by handling low-level transactions on the RS-485 network.

KEY FEATURES

Off-normal status programmable for each input point (NO or NC alarm devices may be used).

12 latching Form-C relays, contacts rated at 2A @ 30VDC.

Connects to the V1000 via RS-485.

Receives and processes real-time commands from the V1000.

Reports all activity to the V1000.

Enables complex input/output linking when used with the V1000 and V200.

Attractive polycarbonate enclosure protects components from damage.

All connections and indicators are fully identified by silk-screened nomenclature on the cover.

UL 294 and UL 1076 recognized component.

Specifications

CONTROLLER	Audio / Visual indicators	Power LED and RS-485 Communications LED
	Communication Ports	RS-485 — two wire
	Warranty	Warrantied against defects in materials and workmanship for 18 months

MECHANICAL	Dimensions (WxHxD)	147.32 mm x 122.55 mm x 32.38 mm; 5.8" x 4.825" x 1.275"
	Weight	0.38 kg; 13.6 oz
	Housing Material	UL94 polycarbonate
	Mounting	Mount to any wall surface, using four screws. For UL compliance, one or more gateways can be mounted inside a locking customer supplied NEMA-4 rated enclosure

CABLE SPECIFICATION	RS-485	• 4000 feet (1220 m) to host using Belden 3105A, • 22 AWG twisted pair, shielded cable
	Output Circuits	• 500 feet (150 m), 2-conductor, using ALPHA 1172C (22 AWG) or Alpha 1897C (18 AWG). Minimum wire gauge depends on cable length and current requirements.

ELECTRICAL	Power Supply Requirements	60 mA @ 9-18 VDC Recommended: supervised linear power supply with battery backup, input surge protection, and AC Fail and battery low contact outputs. Separate supervised, DC supply with battery back-up recommended for relay activated devices.

RELAY RATING	Maximum Load	2A @ 30 VDC

ENVIRONMENTAL	Operating Temperature	0° C to 50° C (32° F to 122° F)
	Humidity	5 - 95% Relative humidity (non-condensing)

CERTIFICATIONS		UL294 and UL 1076 (US)	CSA 205 (Canada)	FCC Class A
		CE Mark, EN 50130-4 (EU)		
		EMC for Canada, EU (CE Mark), Australia (C-Tick Mark), New Zealand, Japan		

ORDERING INFORMATION	AC-HID-VERTX-V300	VertX® V300 Output Monitor Interface (70300AEP0N-AVG)

V300

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