



# VertX™ V300 Output Control Interface



## OUTPUT CONTROL PROCESSING FOR UP TO 12 DEVICES • 70300

- 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.

The HID VertX™ products provide a complete and fully featured hardware/firmware infrastructure for access control software host systems. The 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 system host 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.

### MOUNTING:

Mount to any wall surface, using four screws. For UL\* compliance, one or more interfaces can be mounted inside a locking customer-supplied NEMA-4 rated enclosure with:

- DC supply with battery back-up
- Enclosure tamper switch
- All connections made through conduit

The unit should be installed indoors, inside a secure area, such as in an IT or telecommunications room, utility closet, or on a wall above a suspended ceiling.

### EASILY INTERFACED

- Quick-disconnect screw terminal connectors
- Rotary address switch (0-15)
- Inputs for:
  - 2 auxiliary input circuits
  - AC Fail Monitor\*
  - Battery Fail Monitor\*
  - Enclosure Tamper\*

\*Can be configured as a general purpose input

### LOCAL PROCESSING

- Basic input/output linking for outputs 1 and 2, and auxiliary inputs 1 and 2

### VISUAL INDICATORS

Communications LED flashes green for “transmit to host” and red for “receive from host.” Power LED indicates that sufficient DC voltage is being provided to the unit.

### WARRANTY

Warranted against defects in materials and workmanship for 18 months (see complete warranty policy for details).

### PART NUMBERS

Base Part Number: 70300



## SPECIFICATIONS

<b>Dimensions</b>	5.8" W x 4.825" H x 1.275" D (147.32 mm x 122.55 mm x 32.38 mm)
<b>Weight</b>	13.6 oz (.38 kg)
<b>Enclosure Material</b>	UL94 Polycarbonate
<b>Power Supply Requirements</b>	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.
<b>Relay Rating</b>	2A @ 30 VDC maximum load
<b>Operating Environment</b>	Indoors, or customer-supplied NEMA-4 rated enclosure
<b>Operating Temperature</b>	32° to 122° F (0° to 50° C)
<b>Operating Humidity</b>	5% to 95% relative, non-condensing
<b>Communications Ports</b>	RS-485: two wire.
<b>Certifications</b>	UL* 294 and UL* 1076 Recognized Component for the US CSA 205 for Canada, FCC Class A Verification, EMC for Canada, EU (CE Mark), Australia (C-Tick Mark), New Zealand, Japan EN 50130-4 Access Control Systems Immunity for the EU (CE Mark)
<b>Cable Distance</b>	RS-485 — 4000 feet (1220 m) to host using Belden 3105A, 22 AWG twisted pair, shielded 100 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.

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