

V300 Output Control Interface

Output Control Processing for up to 12 Devices • 70300



ACCESS opportunity.

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 2 A @ 30 VDC should be controlled via interposing relays.

The V300 features on-board flash memory, allowing program updates to be downloaded via the network. The V300 connects to the VI000 through a high speed RS-485 network. The VI000 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.

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 VI000 via RS-485.
- ▶ Receives and processes real time commands from the VI000.
- ▶ Reports all activity to the VI000.
- ▶ Allows complex input/output linking when used with the VI000 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.

Features

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.

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.

Easily Interfaced

- Quick-disconnect screw terminal connectors
- Rotary address switch (0-15)
- Latching form-C relay outputs for 12 relay controllable devices
- 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

Warranty

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

Part Numbers

Base Part Number: 70300

Specifications

Dimensions

5.8” W x 4.825” H x 1.275” D
(147.32 mm x 122.55 mm x 32.38 mm)

Weight: 13.6 oz (.38 kg)

Enclosure Material: UL94 Polycarbonate

Power Supply Requirements

60 mA @ 9-18VDC

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

2 A @ 30VDC maximum load

Operating Environment

Indoors, or customer-supplied NEMA-4 rated enclosure

Temperature

32° to 122° F (0° to 50° C)

Humidity

5% to 95% relative, non-condensing

Communications Ports

RS-485: two wire.

Certifications

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)

Cable Distance

RS-485 – 4000 feet (1220 m) to host using

Belden 3105A, 22 AWG twisted pair, shielded 100Ω cable

Output Circuits – 500 feet (150 m), 2-conductor, using ALPHA 1172C (22AWG) or Alpha 1897C (18AWG)

Minimum wire gauge depends on cable length and current requirements.

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MKT-V300_DS_EN



ACCESS experience.

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