

# Innovations in Security for Your Business

# VertX<sup>™</sup> V300 Output Control Sub-Controller



## Overview

The VertX products provide a complete and fully featured hardware/firmware infrastructure for access control software host systems. The V300 Output Control Sub-Controller 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 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 sub-controllers 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 V1000 via RS-485.
- Receives and processes real time commands from the V1000.
- Reports all activity to the V1000.

- Allows 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.

#### 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.



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## **Features**

### 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\*

### Local Processing

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

# **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 @ 9-18 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

2 A @ 30 VDC 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

#### Communication 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  $100\Omega$  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.



<sup>\*</sup>Can be configured as a general purpose input