

VertX™ V200 Input Monitor Sub-Controller



Overview

The HID VertX products provide a complete and fully featured hardware/firmware infrastructure for access control software host systems. The V200 Input Monitor Sub-Controller connects up to 16 supervised input circuits. Each input point monitors and reports normal, off-normal, and alarm states. The V200 features on-board flash memory, allowing program updates to be downloaded through the network. The V200 connects to the V1000 via a high speed RS-485 network. The V1000, in turn, 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

- Reports supervised or un-supervised alarm circuits.
- Off-normal condition programmable for each input point (NO or NC alarm devices may be used).
- 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 V300.
- 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 components.

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)
- Inputs for:
 - 16 input circuits
 - AC Fail Monitor*
 - Battery Fail Monitor*
 - Enclosure Tamper*

*Can be configured as a general purpose input

Non-latching relay outputs

(rated 2A @ 30 VDC):

- 2 auxiliary devices: alarm host offline (comms down), or general purpose

Local Processing

- Basic input/output linking using inputs 1 and 2, and auxiliary outputs 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: 12.4 oz (.35 kg)

Enclosure Material: UL94 Polycarbonate

Power Supply Requirements

50 mA @ 9-18 VDC

Recommended: Supervised linear power supply with battery back-up, input surge protection, and AC fail and battery low contact outputs.

Separate supervised DC supply with battery back-up recommended for relay activated devices.

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.

Input Circuit Supervision

Configurable for EO resistor values of 1K through 10K. Can also be configured for use as unsupervised circuits.

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, 22AWG twisted pair, shielded 100Ω cable

Input Circuits – 500 feet (150 m), two-conductor, shielded, using ALPHA 1292C (22AWG) or Alpha 2421C (18AWG)

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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