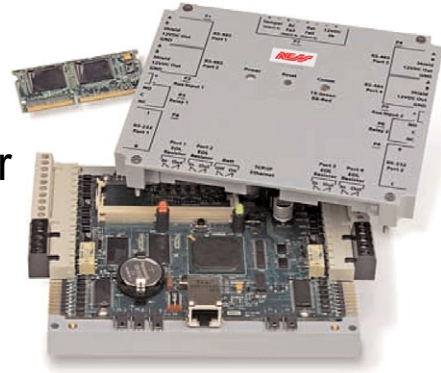


Ness V2000

IP Access Reader / Network Controller



Overview

The Ness V-Series products provide a complete and fully featured hardware/ firmware infrastructure for access control software host systems. The V2000 can communicate via industry standard TCP/IP protocol, over 10/100 Mbps Ethernet LAN and has a 32-bit RISC processor. On-board flash memory allows program updates to be downloaded via the network. The V2000 connects to two access control card readers via Wiegand or Clock-and-Data interface controlling either one or two doors. This architecture takes advantage of the existing corporate LAN and the existing CAT-5 cable.

Features

- Connects with and stores a complete access control and configuration database for one or two controlled doors and 5,000 cardholders with expansion capability to 10,000 cardholders.
- Processes access control decisions.
- Reports supervised inputs/alarms with 255 priorities.
- Allows local connection of a laptop computer for diagnostics and configuration.
- Connects to the host and to other devices on the TCP/IP network.
- Receives and processes real time commands from the host software application.
- Reports all activity to the host.
- Controls and communicates with all connected devices.
- Buffers offline transactions and uploads to the host when communication is restored.
- UL 294 and UL 1076 recognized components.

Features

VISUAL INDICATORS

- Power LED indicates that sufficient DC voltage is being provided to the unit. RS-485 communications LED: solid green indicates successful communications to downstream devices, red flash indicates a failed communications attempt, solid red indicates no communications.

EASILY INTERFACED

- RJ-45 connector for Ethernet TCP/IP
 - Quick-disconnect screw terminal connectors
 - Inputs for:
 - 2 readers
 - 2 door monitor switches
 - 2 Request-to-Exit switches
 - AC Fail Monitor*
 - Battery Fail Monitor*
 - Enclosure Tamper*
- *Can be configured as a general purpose input

Ness V2000 Reader / Network Controller

Specifications

NON-LATCHING RELAY OUTPUTS

- Rated 2 A @ 30 VDC
- 2 door strikes (configurable)
- 2 auxiliary devices: (door held/forced alarm, alarm shunt, host offline (comms down), or general purpose

HARDWARE

- 32-bit RISC CPU, 100 MHz

Microcontroller Memory

- 8 MB onboard Flash memory
- 16 MB / 32 MB memory expansions available
- 32 MB SDRAM
- 256K SRAM

DIMENSIONS: 147.32 mm W x 122.55 mm H x 32.38 mm D)

WEIGHT: 380g

ENCLOSURE MATERIAL: UL94 Polycarbonate

POWER SUPPLY REQUIREMENTS

160 mA @ 9-18 VDC (with no readers connected)

Recommended: Supervised linear power supply with battery backup, input surge protection, and AC Fail and Battery Low contact outputs. V2000 can supply 350 mA @ 12 VDC to two connected readers.

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

OPERATING ENVIRONMENT

Indoors, or customer-supplied NEMA-4 Enclosure

TEMPERATURE: 0° to 50° C

HUMIDITY: 5% to 95% relative, non-condensing

COMMUNICATION PORTS

TCP/IP – 10 or 100 Mbps

SIA standard Wiegand/clock and data – two ports

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

CABLE DISTANCE

TCP/IP – 100m to next device using

Category 5 cable, Alpha 9504C or 9405F

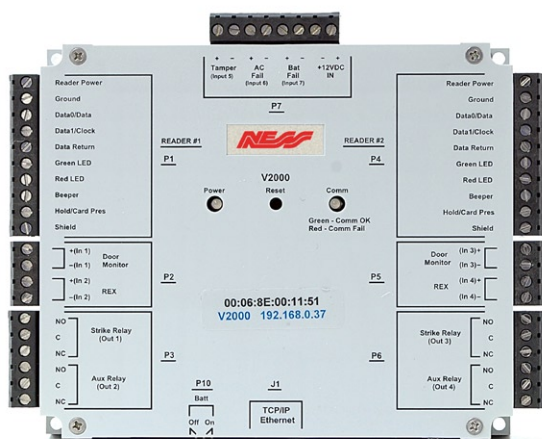
Wiegand – 150m to reader using ALPHA

1299C, 22AWG, 9-conductor, stranded, overall shield. (Fewer conductors needed if all control lines are not used)

Input Circuits – 150m, 2-conductor, shielded, using ALPHA 1292C 22AWG) or Alpha 2421C (18AWG)

Output Circuits – 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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