

NS2+

Intelligent Access Controller

ORDERING

NS2+ Controllers

NS2P	Two reader controller module with transformer, enclosure and (2) suppressors
NS2PCB	Two reader controller board only

Communication devices for NS2+

N-485-PCI-2	RS-232 to RS-485 single port converter
NSLAN1	On-board RS-232 to LAN converter (1 per panel)
LANSRLU1	RS-232 to LAN converter 10/100mbps (multiple panel support)
CBL50	RS-232 to PC communication cable – 50'

Dial-up communication devices for the NS2+

N485PCI2L	N-485 Interface for LANSRLU1
N-485-HUB-2	N-485 Remote Interface for use with dial-up applications
M-56K	56Kbps dial-up modem

Accessories

ENC30	NS2+ high-density enclosure (holds up to (9) NS2+ panels)
X-4	16.5VDC replacement power transformer for NS2+
S-4	Replacement surge suppressor kit for each active relay (2 included with panel)
BAT-3	12V, 4AH backup battery
NS2ACC	NS2+ accessory kit (lock, suppressors, resistors, grounding block, power LED and tamper)
NS2UPG1	Upgrade NS2 panel to NS2+ panel kit

WIN-PAK™ is a trademark of Honeywell International, Inc.

For more information: www.honeywellaccess.com

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NS2+

Intelligent Access Controller

Honeywell Access System's NS2+ control panel is an intelligent 2-door controller that is designed to work with almost any application. The NS2+ controller's compact design, fast 32-bit processor and 10,000 cardholder memory is ideal for the requirements of today's installations. Additionally, as an increasing number of devices require more memory, faster processors and IP based communications, the NS2+ provides the capabilities to handle today's changing market.

The NS2+ will save you time and money on every installation compared to other control panels. Its simple mounting operation combined with removable terminal blocks and quick connect communications will make installation fast and easy.

The NS2+ has the same robustness as the N-1000 control panels are known for. You can be assured that the NS2+ has met and exceeded normal user requirements and will provide reliable operation for your applications.

With more than 100,000 legacy control panels installed, the NS2+ was designed to work along side those panels. Use the NS2+ in-line* on any N-1000 installation that is using RS-485 or Ethernet communications.

FEATURES

- Complete 2 door intelligent controller
- 10,000 cardholder database capacity
- 100,000 event and transaction buffer
- Powerful 32-bit processor for fast performance
- Optional Ethernet plug-in module
- 8 supervised input points
- 4 relays, SPDT 12A @ 28VDC
- Supports 32 definable card formats
- Real-time clock
- Multiple communication options:
 - Direct RJ45 RS-232 connection, 56.7Kbps
 - RS-485 Interface up to 38.4Kbps
 - Optional Ethernet interface
- XPort for future expansion needs
- Removable terminal blocks
- Daylight savings time support
- UL294, CE and FCC certifications

* May require WIN-PAK software upgrade.

Able to fit almost any type of installation application, the NS2+ comes standard in a tile mount enclosure, but has an option for rack mounting. Using a rack mount, up to nine NS2+ boards can be mounted in a space smaller than two square feet.

The NS2+ was designed by installers, for installers. Easy to install, robust, legacy compatible, multiple communications and mounting options make the NS2+ the ideal panel for almost any application.

Multiple communication options give you the flexibility to meet a variety of applications. Using the direct connect RS-232 port, communications are plug-and-play for the first two doors. RS-485 allows for hundreds of doors to be interconnected and an optional Ethernet interface is able to give you the power to meet the demands of today's IT requirements. The optional Ethernet interface may also be able to utilize existing wiring and reduce overall installation costs.

NS2+ Intelligent Access Controller

BENEFITS



Reduce Service Costs

As new features or updates are released for the NS2+, simply flash the panel from your office over an Ethernet or modem connection. There is no need to replace chips or send a service technician. Additionally all NS2+ panels include a super-cap battery that never needs replacing.



Minimize Installation Space

The NS2+ can be mounted in a rack mount enclosure (ENC30) which is capable of holding up to 9 boards. This allows all of your controls to be in a single cabinet and troubleshooting any problems is much simpler. Additionally, the enclosure can fit into just about any closet, ceiling, utility room or other location.



Legacy Compatible*

No need to replace your old hardware, simply add the NS2+ to your legacy N-1000 control panels using RS-485 or Ethernet communications. Enjoy the additional features of the next generation of control panels while saving cost by not having to replace your legacy systems.

* May require a software upgrade to WIN-PAK 2005, WIN-PAK PRO 2005 or WIN-PAK PRO Central Station software.



Easy-to-Install

The NS2+ is designed for any level of installer. Simple mounting instructions and removable terminals make installation fast and easy. A snap-in Ethernet module or direct connect RS-232 provide for flexible and simple communications.



Increase Productivity

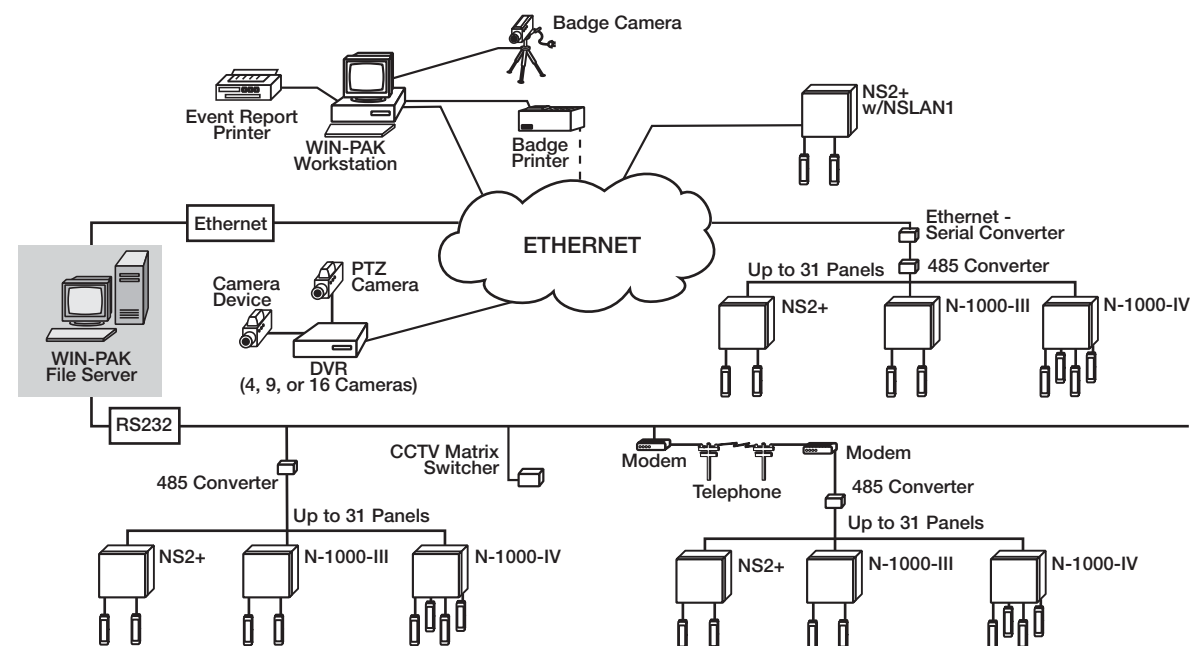
Access control panels have come a long way and the NS2+ is no exception. The NS2+ boasts a fast 32-bit processor that is capable of processing information many times faster than the N-1000 control panel. Faster processing means less time waiting for downloads, un-buffering events and initialization.



Options for Expansion

The NS2+ provides for future expansion using XPort. The XPort can support new devices as your customer's needs change. Currently used for memory expansion, the XPort will be used to support future developments.

CONFIGURATION



SPECIFICATIONS

System Specifications

- Card holders: 10,000
- Transaction/Event storage: 100,000
- Holidays: 32 with multiple types
- Time Codes: 63 per NS2+
- Card reader formats: 32
- Credential facility codes: 32
- Daylight Savings Time
- Leap year support communication:
- Communication support:
 - RS-485
 - RS-232
 - Ethernet (optional)
- Automatic dial back:
 - Dial back on alarm condition
 - Dial back when transaction buffer capacity is reached
- Download functionality:
 - System functional during system download: Yes
 - System functional during credential download: Yes
- Snow Day/Supervisor feature

Operational Functionality

- Duress detection
- Card/PIN:
 - Credential only
 - Credential and PIN

Anti-passback support:

- Learn
- Hard
- Forgiveness at midnight

Card Format Compatibility

- Default - 26- (Standard), 32- and 34- (Honeywell)
- User definable formats up to 37 bit

Supervised Inputs

- 2 door status/contact
- 2 door egress
- 2 reader tamper
- 1 panel tamper
- 1 power fail

Outputs

- 2 relay outputs – door lock
 - 12A @ 28VDC resistive SPST
 - 6A @ 28VDC inductive SPST
- 2 relay outputs – auxiliary
 - 12A @ 28VDC resistive SPST
 - 6A @ 28VDC inductive SPST

Power

- AC power input: 16.5VAC, 50VA
- DC power input: 24VDC, 1.2A
- Current draw: 1.2A
- Reader/auxiliary power: 600mA
- Backup battery: 12VDC

Wire requirements

- Power - twisted pair, 18AWG (NC1821-OR)
- RS-485 - 24AWG, 4,000ft/1,200m max, 2 twisted pairs with shield (120Ohm, 23pF, Belden 9842 or equiv.) (NC2441-TN)
- Alarm input - twisted pair, 22AWG, 2000 ft (NC2221-BR)
- Reader - 5 wire, 18AWG up to 500ft (NC1861-BL)

Dimensions

- Panel dimensions: 9" H x 6" W (22.86cm H x 15.24cm W)
- Panel weight: 14oz (0.40kg) nominal
- ENC10 dimensions: 14.5" H x 12.5" W x 3.5"D (37.08cm H x 31.75cm W x 8.89cm D)
- Enclosure weight: 5.5lb (2.5kg) nominal

Environmental

- Temperature: 35-110° F operational
- Humidity: 0 – 85% RHNC



NSLAN1 Ethernet Module Option

In addition to being compatible with legacy systems, the NS2+ allows for the flexibility to meet the needs of today's IT driven solutions. The NS2+ supports an optional Ethernet module (NSLAN1) and simply plugs into the (NSLAN1) and simply plugs into the NS2+ to enable NS2+ to enable host communications using TCP/IP protocol.