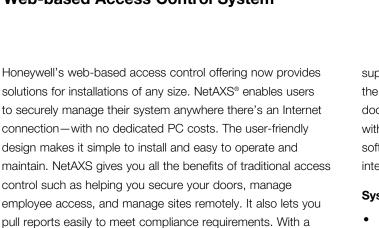


NetAXS®

Web-based Access Control System



browser-based interface, your learning curve and training time are significantly decreased. And you don't have to have a

dedicated PC-simply log on and you're ready to go, securelyfrom the office or anywhere. NetAXS has been developed

with an installer-friendly design that easily adapts to existing IT

infrastructure and methods. This means reduced installation and



support cost. Its superior scalability means you can purchase the exact amount of access control you need now—and add doors later as business needs change. Plus, NetAXS integrates with Honeywell's fully-featured WIN-PAK and MAXPRO Cloud softwares to enable more robust and sophisticated NetAXS integrations. So as your system grows, NetAXS grows with you.

System Highlights:

- SIMPLE: Manage your access control anywhere with an Internet connection
- SCALABLE: Purchase the exact amount of access control you need now and easily add doors later
- FLEXIBLE: Compatible with WIN-PAK® XE, WIN-PAK SE, WIN-PAK PE, WIN-PAK PRO CS (managed access) software and MAXPRO Cloud service.

NETAXS OFFERINGS

ENCLOSURES and ADD-ON BOARDS

| 1 | NX1P* | NetAXS-123: One door, compact (plastic) enclosure |
|-------|--------|--|
| Door | NX1MPS | NetAXS-123: One door, standard (metal) enclosure with power supply and battery |
| | NX1P* | NetAXS-123: One door, compact (plastic) enclosure —and— |
| 2 | NXD1* | NetAXS-123: One door add-on board |
| Doors | NX1MPS | NetAXS-123: One door, standard (metal) enclosure with power supply and battery —and— |
| | NXD1 | NetAXS-123: One door add-on board |
| 3 | NX1MPS | NetAXS-123: One door, standard (metal) enclosure with power supply and battery —and— |
| Doors | NXD2 | NetAXS-123: Two door add-on board |
| 4 | NX4S1 | NetAXS-4: 4 Door control panel (standard enclosure) |
| Doors | NX4L1 | NetAXS-4: Pre-wired 4 door control panel (deluxe enclosure) |

^{*450} mA @ 12 VDC is the maximum current available to power strike, reader(s) and input devices when using a 802.3af Power Over Ethernet (PoE) connection. If additional current is required, an external 12 VDC power supply is needed.

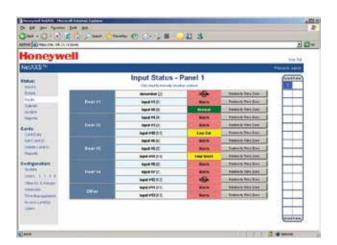


SYSTEM BENEFITS



User Friendly

Easy to use landing page provides a user-friendly experience so you can provide end user training in less than 30 minutes. Whether you're showing customers how to set up the basic parameters such as time zones and access levels, or teaching them how to add or delete cards, everything you need is all located on one page. Simply log into your IP address and navigate the system like you would any other Internet site.

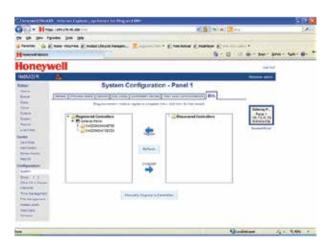


Dynamic Screen Updates

With NetAXS, dynamic screens refresh data automatically without having to refresh the page. This allows status updates from NetAXS to be pushed out to the web screens automatically, without user interaction.

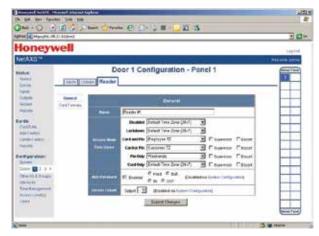
Alarms, events, inputs, outputs, and status screens all automatically update as information is received.

Data transfer between the controller and web browsers has been optimized to reduce bandwidth requirements, improving screen response times.



RS-485 or Ethernet Virtual Loop (EVL) with NetAXS-123

Ethernet Virtual Loop (EVL), a NetAXS-123 feature, for web-hosted systems (EVL is not supported by WIN-PAK), allows up to 16 IP network connected NetAXS-123 controllers to be managed as a group. The group is called a "Virtual Loop" as its functionality is similar to an RS-485 loop. NetAXS-123 downstream panels operating EVL and on the same subnet as the gateway panel are automatically discovered by the gateway panel, greatly reducing installation time and making system expansion easy. Systems using NetAXS-4 or a mix of NetAXS-123 and NetAXS-4 must use RS-485 to loop panels.



Door Access Modes and Options

NetAXS allows you to assign cardholders different levels of access. Supervisor access allows an employee to present their card once to the reader to give individual access. If the supervisor presents their card twice, they enable access for their team during the specified time zone.

Escort access requires a supervisor escort for a non-supervisor cardholder. The supervisor must present his card first, then the non-supervisor must present his card within ten seconds.

NetAXS®

Web-based Access Control System

ENCLOSURE OPTIONS

NetAXS-123

NetAXS-123 **Compact Plastic Enclosure**



PoE or 12 VDC Powered

Built-in Tamper Switch

Control Panel (NXC1) -

- Ethernet Port: Connect to web browser, MAXPRO Cloud or WIN-PAK software
- RS485 or Ethernet: Connect panels downstream and/or . connect to WIN-PAK software (MAXPRO Cloud 4.0 doesn't support downstream panels.)
- USB Port: Easy setup and diagnostics from your laptop
- Color coded terminal labels
- Removable terminal blocks

NetAXS-123 **Standard Metal Enclosure**



Terminal Block with Input Fuse

12V Battery **Backup**

4 A, 12 VDC **Power Supply**

• Universal input (100-240 VAC)

Multiple Tie-Down and Grounding Points

• Cleaner and more

consistent installations

• 3.5 A available to power accessories - over 1 A to power each door

NetAXS-123 Add-On Boards

NetAXS-123 One Door Add-on Board



NetAXS-123 Two Door Add-on Board



NetAXS-4

NetAXS-4 **Standard Metal Enclosure**

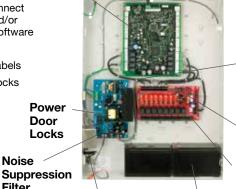


Control Panel (NX4PCB)

- Ethernet Port: Connect to web browser or WIN-PAK software
- RS485 or Ethernet: Connect panels downstream and/or connect to WIN-PAK software
- Built-In PCI Function
- · Color coded terminal labels
- Removable terminal blocks

12V **Battery** Backup

NetAXS-4 **Deluxe Metal Enclosure**



Pre-Wired Panel Design

Fire-Rated Lock **Power Release**

Fused Relay Distribution Module

Convenient 110V Plug

Power

Door

Locks

Noise

Filter

24V Battery **Backup**

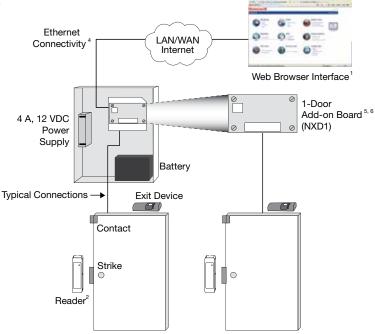


SYSTEM OVERVIEW

1 DOOR Typical PoE Configuration PoE Switch LAN/WAN Compact Plastic Enclosure Internet CAT5 or Web Browser Interface CAT6 Cable Typical Exit Device Connections³ Contact Reader Reader² Strike

2 DOORS

1 Door Standard Metal Enclosure shown with 1-Door Add-on Board



- 1. Also compatible with WIN-PAK $^{\circ}$ XE, WIN-PAK SE, WIN-PAK PE and WIN-PAK PRO CS (Managed Access)
- 2. When using an IN and OUT reader, BOTH readers must have HOLD lines
- 3. 450 mA, 12 VDC is maximum available to power strike, reader(s) and input devices when using a 802.3af PoE connection. If unit is externally powered with a 12 VDC supply, higher current is available.
- 4. USB compatibility for local configuration

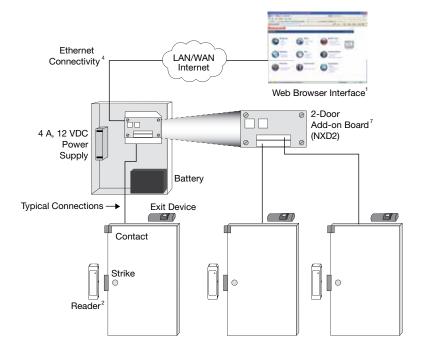
- 5. 1-door add-on board compatible with compact plastic enclosure
- 6. Requires external power when used in compact plastic enclosure
- 7. 2-door add-on board is not compatible with compact plastic enclosure
- 8. When mixing NetAXS-123 and 4-door NetAXS (NetAXS-4) controllers, the NetAXS-123 must be configured as the first panel or gateway



SYSTEM OVERVIEW

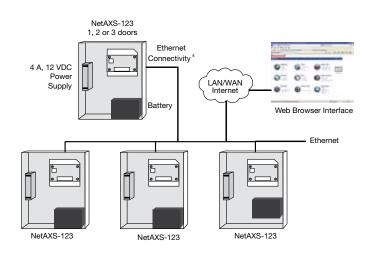
3 DOORS

1 Door Standard Metal Enclosure shown with 2-Door Add-on Board

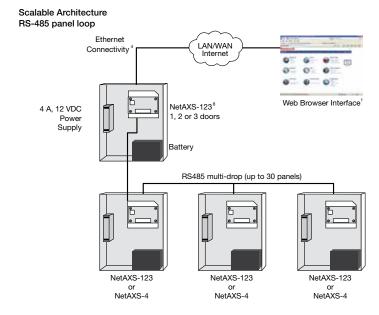


>3 **DOORS**

Scalable Architecture Ethernet Virtual Loop



>3 DOORS



- 1. Also compatible with MAXPRO Cloud WIN-PAK® XE, WIN-PAK SE, WIN-PAK PE version 3.3 or higher and WIN-PAK PRO CS 4.2 or higher (Managed Access)
- 2. When using an IN and OUT reader, BOTH readers must have HOLD lines $\,$
- 450 mA, 12 VDC is maximum available to power strike, reader(s) and input devices when using a 802.3af PoE connection. If unit is externally powered with a 12 VDC supply, higher current is available.
- 4. USB compatibility for local configuration
- 5. 1-door add-on board compatible with compact plastic enclosure

- 6. Requires external power when used in compact plastic enclosure
- 7. 2-door add-on board is not compatible with compact plastic enclosure
- 8. When mixing NetAXS-123 and NetAXS-4 (version 3.04.15 or higher) controllers, the NetAXS-123 must be configured as the first panel or gateway
- NetAXS-123 v5.0 or later supports Ethernet Virtual Loop (EVL).
 NetAXS-4 DOES NOT SUPPORT EVL. Therefore, systems using EVL must use NetAXS-123 panels.

SPECIFICATIONS AND FEATURES

| | NetAXS-123 | | | NetAXS-4 | | |
|--------------------|--|--|--|--|---|--|
| | | | | | | |
| | | NX1P | NX1MPS | NX4S1 | NX4L1 | |
| READERS/DOORS | Door/Reader Capability | 1 DOOR Controller ^{1,4} | 1, 2 or 3 DOOR Controller (NXD1 or NXD2 add-on board is required for 2nd or 3rd door) | Four READER controller | | |
| | Expandability | Expandable up to 93 DOORS (186 readers) per controller loop ^{2,3} | | Expandable up to 124 doors (12 | 24 readers) per controller loop ^{2,3} | |
| | Dual Reader Control Capability (IN/OUT Reader per Door) | YES ⁵ – IN and OUT reader capability per door (readers must have HOLD line capability) | | Chardend William of auction Laurender | | |
| | Reader Compatibility | Standard Wiegand protocol supported ABA not supported | | Standard Wiegand protocol supported ABA not supported | | |
| оитритѕ | Number of Outputs | Two SPDT relays (jumper selectable NO or NC contacts) per door rated at 3 A @ 28 VDC Two open collector outputs (0C) (16 ma, 12 VDC): reader LED (Aux) and reader buzzer (Aux) per door are available. | | Eight SPDT, Form C relays rated at 10 A @ 28 VDC Eight open collector outputs (0C) (16 ma, 12 VDC): 4 reader LED (Aux Output) and 4 reader buzzer (Aux Output) are available. | | |
| | Output Expandability | 2-door solution has 8 total outputs: 4 relays, 4 OC (requires NXD1 add-on board); Expandable ¹⁰ to 72 total outputs using a maximum of four (4) NX40UT relay output boards. | 2-door solution has 8 total outputs: 4 relays, 4 OC (requires NXD1 add-on board) 3-door solution has 12 total outputs: 6 relays, 6 OC (requires NXD2 add- on board); Expandable ¹⁰ to 76 total outputs using a maximum of four (4) NX40UT relay output boards. | 4-door solution expandable to 72 total outputs using a maximum of four (4) NX40UT relay output boards. | | |
| | Relay Power Source | Selectable: +12 VDC 0 to 28 VDC externs | self-powered - OR - | 0 to 28 VDC externally supplied source | +24 VDC self-powered | |
| | Controller has a total of six configurable four-state su Number of Inputs (Factory default settings are Status, REX, Rea Reader Tamper B, Power Fail and Gene | | tatus, REX, Reader Tamper A, | 14 configurable four-state supervised input points | | |
| INPUTS | | | Expandable ¹⁰ to 78 total inputs using a maximum of two NX4IN relay input | 4-door solution expandable to 78 total inputs ⁵ using a maximum of two NX4IN relay input boards. | | |
| | Power-Fail and Panel Tamper "Off the Wall" Tamper Capability | Yes Yes | boards. Yes | Yes | Yes | |
| INPUT | Unit Input | Power over Ethernet (PoE) 802.3af or external 12 VDC supply | 93 VAC to 264 VAC, 50/60 Hz input provides 12 VDC, 4 A output | 120 VAC, 6 A, 60 Hz input for wall transformer provides 16.5 VAC @ 50 VA output | 115 VAC, 60 Hz, 2 A power supply input provides 24 VDC, 6 A output | |
| POWER | Socket or Hardwire AC Input Control Board Power Input | Power over Ethernet (PoE) or +12 VDC | Yes +12 VDC from included power supply | 16.5 VAC from included wall mount transformer | Yes +24 VDC from included power supply | |
| POWER OUTPUT | Power for Reader(s) and Input Devices | 450 mA, 12 VDC is available to power strike, reader(s) and input devices when using PoE | 1.15 A per door for locks/strikes, readers | 600 mA auxiliary current available to power the readers and other devices | 600 mA auxiliary current available to power the readers and other devices | |
| ER OI | Power for Locks/Strikes | If higher current is needed, power by | and input devices (3.5 A @ 12 VDC total) | Locks/strikes must be | 1.1 A per door for locks/ | |
| POW | Backup Battery System | external 12 VDC supply External ⁶ | 12 VDC, 7 AH battery | externally powered 12 VDC, 7 AH battery | strikes (4.4 A @ 24 VDC total) Two 12 VDC, 7 AH batteries | |
| # | Material | High Impact Plastic | Metal | Metal | Metal | |
| ENCLOSURE | Physical Enclosure Size | 7.75"H x 7.75"W x 2.75"D | 13.9"H x 11.9"W x 4.7"D | 18"H x 15"W x 4.5"D | 23.9"H x 17.7"W x 4"D | |
| ENCL | Wiring Access Holes/Knockouts | 7 | 19 | 8 | 30 | |
| | Removable Terminal Blocks | Yes | Yes | Yes | Yes | |
| LATI | with Color Coded Labels Graphic Wiring Cards/Labels | Yes | Yes | Yes | Yes | |
| INSTALLATION | Captive Mounting Hardware | Yes | Yes | | | |
| | Cable Shield Termination Points | | Yes | Yes | Yes | |
| N | Real Time Clock | | Global Geographic Time Zone Suppor | | | |
| ИАТІ | Clock Synchronization Processor | Freescale Co | Yes - via NTP net | work server Freescale Coldfire 32-bit | | |
| FORM | System MTBF | | | | | |
| N | (mean time between failures) | 250,000 hours | | 250,000 hours | | |
| SYSTEM INFORMATION | Temperature Ratings | | 2 to 120°F (0°C to 49°C) Operating; -67 C compliant | to 185°F (-55°C to +85°C) Storage CE and FCC compliant | FCC compliant | |
| SK | Certifications and Approvals | UL-294 | | UL-294 listing | UL-294 listing | |

SPECIFICATIONS AND FEATURES

| | | NetAX | S-123 | NetAXS-4 | | |
|----------------------------|---|--|---|--|---|--|
| | | | | | | |
| | | NX1P | NX1MPS | NX4S1 | NX4L1 | |
| LEDS | Status LEDs | 12 LEDs total (12V power, RS485, reader(s), door | | | , system run, Ethernet, readers, relay status) | |
| | Built-in Communication Options | Ethernet, USB ⁸ , RS485 | | Ethernet, RS485 | | |
| COMMS | I/O Expansion Module Connectivity | Use RS485 port to connect a maximum of 6 downstream I/O modules (4 output and 2 input) | | Use RS485 port to connect a maximum of 6 downstream I/O modules (4 output and 2 input) | | |
| | Controller Loop Capability | Total of 16(EVL)/31(RS485) panels in a loop ^{2,3} | | Total of 31 panels in a loop ^{2,3} | | |
| | Software Compatibility ⁹ | | MAXPRO Cloud, WIN-PAK XE/SE/ | PE/CS – See Note 9 below | | |
| _ | NetAXS-123 as Gateway Panel | Supported downstream panels include NetAXS-123 and NetAXS-4 See notes 2 & 3. | | | | |
| ноѕт | NetAXS-4 as Gateway Panel | Currently supported downstream panels include NetAXS-4 only See notes 2 & 3. | | | | |
| _ | using PCI3 Converter | Supported downstream panels include NetAXS-123, NetAXS-4, N-1000 family and NS2 | | | | |
| | using N-485-PCI-2 Converter | Not compatible with NetAXS-123 or NetAXS | | | | |
| 3. OL | Door Control Modes | Card only, card and PIN, card or PIN, PIN only, lockdown, disabled, supervisor, escort, limited use card, expire on date, first card rule, snow day rule, time zone toggle, anti-passback, duress ⁵ | | | | |
| DOOR | Interlocks for custom actions | Yes | Yes | Yes | Yes | |
| | Anti-Passback Capability | Local and global capability, hard and soft implementation NetAXS-123 allows anti-passback using In and Out readers per door (local and global) ⁵ | | | | |
| | Card and Event Buffer Capacity | 10,000 card capacity, 25,000 event capacity | | | | |
| | Firmware Revision | On-board flash memory for field firmware revision updates and feature expansion | | | | |
| SE | Offline Database backup available | Card and configuration databases | | | | |
| ABA | Export Capabilities | Card database, alarms and events (CSV format) ⁵ | | | | |
| DAT | Number of Card Formats | 128 unique card formats can be supported ⁵ | | | | |
| 밑 | Site Codes | 8 | | | | |
|)S a | Maximum Card Format Size | 75-bit (maximum card # = 64-bits) 5,7 | | | | |
| CARDS and DATABASE | Time Zones | 127 ⁵ | | | | |
| 0 | Access Levels | 128 | | | | |
| | Holidays | 255 ⁵ | | | | |
| . S | Integrated basic reports | Yes | Yes | Yes | Yes | |
| TINC TANK | Import/export of card database | Yes | Yes | Yes | Yes | |
| REPORTING and ANALYSIS | Alarms and events can be | | | | | |
| 밀밀 | exported and saved in | Yes | Yes | Yes | Yes | |
| | offline storage Supported Browsers | | Internet Explorer and | Mozilla Firefox | | |
| | Icon Driven Landing Page | Yes | Yes | | | |
| E W | Web Browser Control | | control monitor and view live events | nanually control doors and reader | rs | |
| EDD | Web Server Support | All access control functions | | | | |
| EMBEDDEI Web serve | Secure Web Browsing | SSL and SHA-1 secure socket layer encryption | | | | |
| _ ∞ > | Dynamic Screen Refresh | Yes Yes Yes | | | | |
| WORLDWIDE ACCEPTABILITY | Multiple user connections | Yes | Yes | Yes | Yes | |
| | Global Languages Supported | English, Italian, French, Dutch, Spanish | • • | English, Italian, French, Dutch, Spa | | |
| | Quick Start Guides | Yes | Yes | | | |
| | Full User and Installation Guides | on product CD | on product CD | Printed | Printed | |
| | Multi-Language Basic Installation Guides | Yes | Yes | | | |
| | User Translated Files | Customer ability to export, import, modify, create and add language files. Can be selected for use with unique login accounts. | | | | |
| | USEI ITAIISIALEU FIIES | | riport, modily, create and add languag Yes | je mes. Gan de selecteu ioi use w | iui unique iogin accounts. | |
| | Universal Power Supply Input | Power over Ethernet (PoE) 802.3af | 93-264 VAC, 50/60 Hz input | | | |

- 1. A second door may be added with a NXD1 add-on board however, PoE power restrictions apply (see footnote 4).
- 2. RS-485 panel loop: A total of 31 NetAXS-123 (version 5.01.07 or higher) and NetAXS-4 (version 3.04.15 or higher) panels may be combined in a controller loop for a maximum of 123 doors. Ethernet Virtual Loop (EVL): A total of 16 NetAXS-123 panels may be combined in a controller loop for a maximum of up to 48 doors. NetAXS-4 panels CANNOT be used with an EVL.
- When mixing NetAXS-123 and NetAXS-4 controllers, NetAXS-123 must be the gateway Panel and the panel loop must be RS-485.
- 4. 450 mA, 12 VDC is maximum current available to power strike, reader(s) and input devices when using a 802.3af PoE connection. If unit is externally powered, higher current is available.
- 5. When using MAXPRO Cloud or WIN-PAK software, this feature may have limitations or not exist.

- 6. An external UPS is required to power the PoE power source for battery backup.
- 7. Suitable for handling the 75-bit transparent card format of PIV, TWIC and FRAC cards.
- 8. USB port for setup and troubleshooting.
- 9. Software compatibility for NetAXS
 - a) MAXPRO Cloud 4.0 only supports NetAXS-123 configured as a gateway.
 - b) All NetAXS versions programmed as an N1000: WIN-PAK SE, WIN-PAK PE, WIN-PAK PRO CS, WIN-PAK CS 4.1 WIN-PAK 2005, WIN-PAK PRO 2005, WIN-PAK 2.0 Release 4
 - c) WIN-PAK v3.3 or greater or WIN-PAK CS 4.2 or greater
- 10. WIN-PAK will not support NX4IN or NX4OUT configured on a NetAXS-123.



ORDERING

| Part Number | Description | | | | | | |
|--------------------|--|--|--|--|--|--|--|
| NetAXS-123 | | | | | | | |
| 1 Door Solutions | | | | | | | |
| NX1P | NetAXS-123: One door, compact (plastic) enclosure - PoE or externally powered | | | | | | |
| NX1MPS | NetAXS-123: One door, standard (metal) enclosure with tamper switch and terminal block. Includes 4 A, 12 VDC output/100-240 VAC input power supply and 12V, 7 AH battery | | | | | | |
| Add-on Boards (For | r 2 and 3 door solutions) | | | | | | |
| NXD1* | NetAXS-123: One door add-on board (Adds 1 door to your existing 1-door system = 2 doors) | | | | | | |
| NXD2** | NetAXS-123: Two door add-on board (Adds 2 doors to your existing 1-door system = 3 doors) | | | | | | |
| NetAXS-123 Compo | NetAXS-123 Components & Accessories | | | | | | |
| NXC1 | NetAXS-123 - Control Board only | | | | | | |
| NetAXS-123 Access | s Control Starter Kits with Readers | | | | | | |
| NX1P10 | NetAXS-123: Includes NX1P One door compact (plastic) enclosure and (1) OP10HONR mini-mullion proximity reader | | | | | | |
| NX1MPS10 | NetAXS-123: Includes NX1MPS One door, standard (metal) enclosure with power supply and battery and (1) OP10HONR mini-mullion proximity reader | | | | | | |
| NXD1OP10 | NetAXS-123: Includes NXD1 One door add-on and (1) OP10HONR mini mullion proximity reader (Adds 1 door to your existing 1-door system = 2 doors) | | | | | | |
| NXD2OP10 | NetAXS-123: Includes NXD2 Two door add-on and (2) OP10HONR mini-mullion proximity readers (Adds 2 doors to your existing 1-door system = 3 doors) | | | | | | |
| NetAXS-4 | | | | | | | |
| NetAXS-4 Web Bas | ed Access Control Panels | | | | | | |
| NX4S1 | NetAXS-4: 4 Door Control Panel (Standard Enclosure) | | | | | | |
| NX4L1 | NetAXS-4: Pre-wired 4 Door Control Panel (Deluxe Enclosure) | | | | | | |
| NX4PCB | NetAXS-4: NetAXS PCB Board with Manual and (4) Surge Suppressors | | | | | | |
| NetAXS-4 Access C | Control Starter Kits with Readers | | | | | | |
| WPNX4L30 | NetAXS-4: IP Ready Access Starter Kit with WIN-PAK, NX4S1 Deluxe Standard Enclosure Option and (4) OP30HONR Mullion Proximity Readers | | | | | | |
| WPNX4S30 | NetAXS-4: IP Ready Access Starter Kit with WIN-PAK, NX4S1 Standard Enclosure Option and (4) OP30HONR Mullion Proximity Readers | | | | | | |
| NX4OP30S | NetAXS-4: NetAXS with Standard Enclosure - Standalone Web-based Access 4 Door Kit with (4) OP30HONR | | | | | | |
| NX4OP40S | NetAXS-4: NetAXS with Standard Enclosure - Standalone Web-based Access 4 Door Kit with (4) OP40HONR | | | | | | |
| NX4OP30L | NetAXS-4: NetAXS with Deluxe Enclosure - Standalone Web-based Access 4 Door Kit with (4) OP30HONR | | | | | | |
| NX4OP40L | NetAXS-4: NetAXS with Deluxe Enclosure - Standalone Web-based Access 4 Door Kit with (4) OP40HONR | | | | | | |
| NetAXS Accessorie | s*** | | | | | | |
| NX4IN**** | NetAXS Input Board – 32 inputs per board. Connect 2 per panel. Total 64 inputs. | | | | | | |
| NX4OUT*** | NetAXS Output Board – 16 relays per board. Connect 4 per panel. Total 64 relays. | | | | | | |
| NXIOENCKT | Double board enclosure for NX4IN, NX4OUT | | | | | | |
| | | | | | | | |

^{*} Requires external power when used in compact plastic enclosure

For more information:

www.honeywell.com/security

Automation and Control Solutions

Honeywell Security Products Americas 2700 Blankenbaker Pkwy, Suite 150 Louisville, KY 40299 1.800.323.4576 www.honeywell.com



^{** 2-}door add-on board is not compatible with compact plastic enclosure

^{***} All NetAXS accessories are compatible with both the NetAXS-123 and NetAXS-4

^{*****} Requires 24VDC, 2.3A (55 Watts)