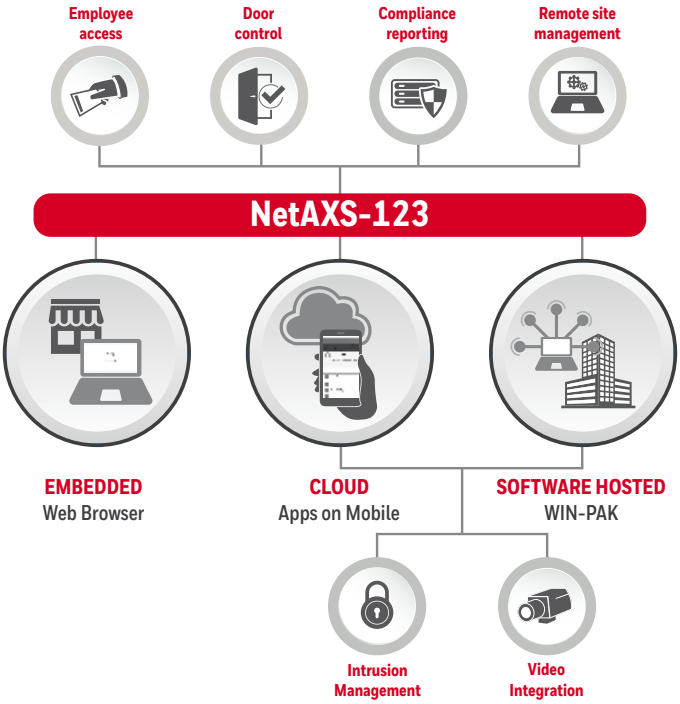
Honeywell
THE POWER OF CONNECTED

Web-based Access Control System

NetAXS-123

Hybrid Access Control Panel

Honeywell's web-based NetAXS controller provides solutions for installations of any size. NetAXS-123 enables users to securely manage their system anywhere there's an Internet connection – with no dedicated PC or software costs. The user-friendly design makes it simple to install and easy to operate and maintain.



NetAXS-123 gives you all the benefits of traditional access control, such as helping you secure doors, manage employee access, and manage sites remotely. It also lets you pull reports easily to meet compliance requirements. With a browser-based interface, your learning curve and training times are significantly decreased. No dedicated software is required –simply log on and you're ready to go, securely – from the office or anywhere. You can manage NetAXS-123 using the embedded browser, MAXPRO Cloud's secure cloud infrastructure, or WIN-PAK®'s integrated security suite.

NetAXS-123 has been developed with an installer-friendly design that easily adapts to existing IT infrastructure and methods, reducing installation and support costs. *So as your system grows, NetAXS grows with you.*

FEATURES AND BENEFITS

Flexible 3-in-1 Capability

- Embedded, cloud, or software-hosted capability from one panel.
- Deploy NetAXS-123 for a large variety of jobs – from basic access control for a single site up to multi-site, enterprise-level security with fully integrated access, video and intrusion.

Faster Installation

- Native IP-based hardware with Power over Ethernet (PoE) capability eliminates additional network module wiring and simplifies powering the panel.
- By-the-door mounting using plastic enclosure decreases cable runs.
- Metal enclosure with 4-amp power supply included and battery backup available for traditional installs or retrofits.

Lower Cost of Ownership

- Expand single door controller to manage 2 or 3 doors* with 1 and 2-door add-on boards.
- Add additional panels and manage using the embedded interface via Ethernet Virtual Loop (EVL)** or RS-485 loops.
- Allow readers on each side of the door without extra hardware.

Increased Productivity

- New, faster, and more intuitive user interface decreases time spent on deployment and training.
- Embedded browser features basic access control that is simple and easy to use. Add MAXPRO Cloud or WIN-PAK for more advanced features, such as video and intrusion integrations, advanced reporting, and photo badging.

Enhanced Security

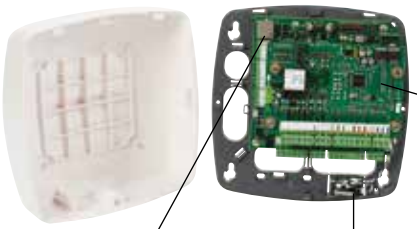
- 256-bit AES encrypted communication between panel and hosts (browser, cloud, and WIN-PAK).
- Security certificate capability ensures secure and trusted connections to the panel.
- Panel tamper switch included on both plastic and metal enclosures.

* NXD2 2-door add-on board is only compatible with NX1MPS metal enclosure.

** Ethernet Virtual Loop (EVL) is only compatible with NetAXS-123 panels. Mixed loops with NetAXS-4 require RS-485 connections.

NetAXS-123 Enclosure Options

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
- RS-485 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

Multiple Tie-Down and Grounding Points

- Cleaner and more consistent installations

4 A, 12 VDC Power Supply

- Universal input (100–240 VAC)
- 3.5 A available to power accessories – over 1 A to power each door

12V Battery Backup

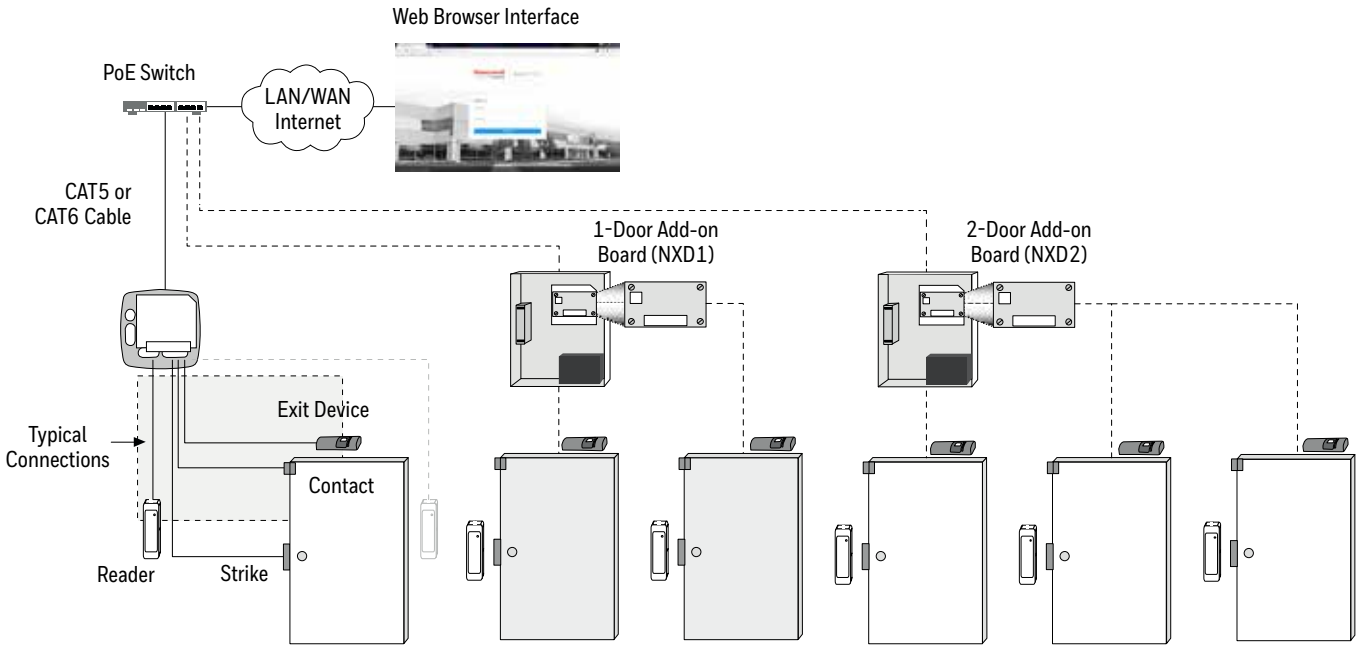
Terminal Block with Input Fuse

NetAXS-123 Add-On Boards

NetAXS-123 One Door Add-on Board

NetAXS-123 Two Door Add-on Board

NetAXS-123 System Overview



NetAXS-123 Specifications

	SPECIFICATIONS	NX1P	NX1MPS
COMMUNICATIONS	BUILT-IN COMUNNICATION OPTIONS	Ethernet; RS-485; USB	
	I/O EXPANSION MODULE CONNECTIVITY	Use RS-485 port to connect a maximum of 6 downstream I/O modules (4 output and 2 input)	
	CONTROLLER LOOP CAPABILITY	EVL: 16 NetAXS-123 panels RS-485: 31 NetAXS-123 and/or NetAXS-4 panels total[1, 2]	
READERS/DOORS	DOOR/READER CAPABILITY	1 door/2 readers (expandable to 2 doors/4 readers)	1 door/2 readers (expandable to 3 doors/6 readers)
	EXPANDABILITY	Expandable to 93 doors/186 readers per controller loop[1, 2]	
	READER COMPATABILITY	Standard Wiegand protocol supported; ABA not supported	
OUTPUTS	NUMBER OF OUTPUTS	2 SPDT (jumper-selectable NO or NC contacts) per door rated at 3 A @ 28 VDC; 2 open collector outputs (OC) rated at 16 mA @ 12 VDC: reader LED (Aux) and reader buzzer (Aux) per door are available	
	OUTPUT EXPANDABILITY	2 relays, 2 OC expandable to 4 relays, 4 OC with NXD1 add-on board	2 relays, 2 OC expandable to 6 relays, 6 OC with NXD2 add-on board
	RELAY POWER SOURCE	Selectable: 12 VDC self-powered source or 0–28 VDC externally supplied source	
INPUTS	NUMBER OF INPUTS	6 configurable four-state supervised input points (Factory default settings are: Status, REX, Reader Tamper A, Reader Tamper B, Power Fail, and General Input)	
	INPUT EXPANDABILITY	5 inputs expandable to 10 with NXD1 add-on board	5 inputs expandable to 14 with NXD2 add-on board
	POWER-FAIL AND PANEL TAMPER	Yes	Yes
POWER INPUTS	UNIT INPUT	Power over Ethernet (PoE) 802.3af or external 12 VDC supply	93–264 VAC, 50/60 Hz input provides 12 VDC, 4 A output
	SOCKET OR HARDWARE AC INPUT	—	Yes
	CONTROL BOARD POWER INPUT	Power over Ethernet (PoE) or 12 VDC	12 VDC from included power supply
POWER OUTPUTS	POWER FOR LOCKS/STRIKES/READER(S)/ INPUT DEVICES	450 mA, 12 VDC available for strike, reader(s), and input devices when using PoE (If higher current is needed, power by external 12 VDC supply)	1.15 A per door for locks/strikes, readers, and input devices (3.5 A @ 12 VDC total)
	BACKUP BATTERY SYSTEM	Not included	12 VDC, 7 AH battery
ENCLOSURE	MATERIAL	High Impact Plastic	Metal
	PHYSICAL ENCLOSURE SIZE	197 H x 197 W x 70 D (mm) 7.75"H × 7.75" W × 2.75" D	354 H x 303 W x 120 D (mm) 13.9" H × 11.9" W × 4.7" D
	WIRING ACCESS HOLES/KNOCKOUTS	7	19
INSTALLATION	REMOVABLE TERMINAL BLOCKS WITH COLOR-CODED LABELS	Yes	
	GRAPHIC WIRING CARDS/LABELS	Yes	
	CAPTIVE MOUNTING HARDWARE	Yes	
SYSTEM INFORMATION	REAL TIME CLOCK	Global geographic time zone support; Daylight Saving Time support	
	CLOCK SYNCHRONIZATION	Yes: via NTP network server	
	PROCESSOR	Freescale Coldfire 32-bit	
	SYSTEM MEAN TIME BETWEEN FAILURES	250,000 hours	
	TEMPERATURE RATINGS	Operating: 0°C to 49°C; Storage: -55°C to 85°C	
	CERTIFICATIONS AND APPROVALS	CE and FCC compliant; UL 294 listing	

1. 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. NetAXS-4 panels ***cannot*** be used with an EVL.

2. When mixing NetAXS-123 and NetAXS-4 controllers, NetAXS-123 must be the gateway panel and the panel loop must be RS-485

NetAXS-123 Specifications

	SPECIFICATIONS	NX1P	NX1MPS
LEDs	**STATUS LEDs**	12 LEDs total (12V power, PoE, over current, Ethernet, RS-485, reader[s], door state, run, relay status)	
HOST	**SOFTWARE COMPTIBILITY** [1]	MAXPRO Cloud, WIN-PAK XE/SE/PE/CS	
	NETAXS-123 AS GATEWAY PANEL	Supported downstream panels include NetAXS-123 and NetAXS-4 [2, 3]	
	NETAXS-4 AS GATEWAY PANEL	Supported downstream panels include NetAXS-4 only [2, 3]	
	USING PC13 CONVERTER	Supported downstream panels include NetAXS-123, NetAXS-4, N-1000 family, and NS2	
	USING N-485-PCI-2 CONVERTER	Not compatible	
DOOR CONTROL	**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 [4]	
	INTERLOCKS FOR CUSTOMER ACTIONS	Yes	
	ANTI-PASSBACK CAPABILITY	Local and global capability; hard and soft implementation	
CARDS AND DATABASE	**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	
	OFFLINE DATABASE BACKUP AVAILABLE	Card and configuration databases	
	EXPORT CAPABILITIES	Card database; alarms and events (CSV format) [4]	
	NUMBER OF CARD FORMATS	128 unique card formats can be supported [4]	
	SITE CODES	8	
	MAXIMUM CARD FORMAT SIZE	75-bit (maximum card # = 64-bits) [4, 5]	
	TIME ZONES	127 [4]	
	ACCESS LEVELS	128	
	HOLIDAYS	255 [4]	
REPORTING AND ANALYSIS	**INTEGRATED BASIC REPORTS**	Yes	
	IMPORT/EXPORT OF CARD DATABASE	Yes	
	ALARM/EVENT EXPORT	Yes	
WEB	**SUPPORTED BROWSERS**	Google Chrome	
GLOBAL	**SUPPORTED LANGUAGES**	English, French, German, Dutch, Italian, Spanish, Czech, Simplified Chinese, Arabic	

1. Software compatibility for NetAXS: All NetAXS versions programmed as N-1000; 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; WIN-PAK v3.3 or greater; or WIN-PAK CS 4.2 or greater.
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. NetAXS-4 panels ***cannot*** be used with an EVL.
3. When mixing NetAXS-123 and NetAXS-4 controllers, NetAXS-123 must be the gateway panel and the panel loop must be RS-485.
4. When using WIN-PAK software, this feature may have limitations or may not exist.
5. Suitable for handling the 75-bit transparent card format of PIV, TWIC, and FRAC cards.

NetAXS-123 Ordering

ONE DOOR SOLUTIONS	
NX1P	One Door, Plastic Enclosure, PoE or externally powered
NX1MPS	One Door, Metal Enclosure, 4-amp power supply and 12V, 7 AH battery backup
TWO DOOR SOLUTIONS	
NX2P	Two Door, Plastic Enclosure, requires external power
NX2MPS	Two Door, Metal Enclosure, 4-amp power supply and 12V, 7 AH battery backup
THREE DOOR SOLUTION	
NX3MPS	Three Door, Metal Enclosure, 4-amp power supply and 12V, 7 AH battery backup
ONE AND TWO DOOR EXPANSION BOARDS	
NXD1	One Door Expansion Board, converts One door (NX1P and NX1MPS) to a Two door NetAXS-123 panel
NXD2	Two Door Expansion Board, converts One door (NX1MPS only) to a Three door NetAXS-123 panel
RECOMMENDED ACCESSORIES	
LU45BHONA	LU45 DESFIRE EV2 Secure EU / UK Backbox square Reader
ODPEV28N38	DESFIRE EV2 printable card – diversified key encrypted, programmed 38 bit card number compatible with LU45 series reader
ODKEV28N38	DESFIRE EV2 key fob – diversified key encrypted, programmed 38 bit card number compatible with LU45 series reader
LU4500BHONA	LU45 DESFIRE EV2 Secure EU / UK Backbox square Reader with light ring
LU4516BHONA	LU45 DESFIRE EV2 Secure EU / UK Backbox square Reader with light ring and keypad
LU45BB	Wall spacer 6 mm for all LU45 readers
LU45COV	Cover for all LU45 readers

For more information,
www.honeywell. com/security/uk

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HSFI-NA123 R6-02-UK(0618)DS-E
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