NetAXS-4

Hybrid Access Control Panel

Honeywell's web-based NetAXS controller provides solutions for installations of any size. NetAXS-4 enables users to securely manage their system anywhere there's an Internet connection—with no dedicated PC costs. The user-friendly design makes it simple to install and easy to operate and maintain.

NetAXS-4 gives you all the benefits of traditional access control such as helping you secure your 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 required—simply log on and you're ready to go, securely—from the office or anywhere.

NetAXS-4 has been developed with an installer-friendly design that easily adapts to existing IT infrastructure and methods. This means reduced installation and support cost. Plus, NetAXS-4 integrates with Honeywell's fully-featured WIN-PAK Integrated Security Solution to enable more robust and sophisticated NetAXS integrations. So as your system grows, NetAXS grows with you.

FEATURES AND BENEFITS

User Friendly

- Pre-wired enclosure, power supply, and relay board saves installation time (NX4L1 only)
- Easy to use landing page.
- End-user training in less than 30 minutes.
- All tools—from basic settings to adding/deleting cards—located on one page.
- Simply log in and begin!

Dynamic Screen Updates

- No user interaction required to push status updates from NetAXS-4 to the web screens.
- Alarms, events, inputs, outputs, and status screens automatically update.
- Optimized data transfer between the controller and web browsers results in reduced bandwidth and improved screen response times.

RS-485 Loop with NetAXS-123

- Connect and manage a NetAXS-4 panel through either a NetAXS-4/-123 gateway panel.
- Connect and manage up to 31 panels in a group.
- Add doors without having to rip and replace hardware, or add software.

Door Access Modes and Options

- Assign cardholders different access levels.
- Dynamic supervisor access configurations for single and double card swipes.
- Escort access requires a supervisor escort for a non-supervisor cardholder.

Flexible and Secure

- Compatible with WIN-PAK®XE, WIN-PAK SE, WIN-PAK PE, WIN-PAK PRO CS (managed access) software.
- Up to 256-bit AES encryption between NetAXS panel and WIN-PAK host.

NetAXS-4 Technical Specifications

Enclosure options

STANDARD METAL ENCLOSURE

CONTROL PANEL (NX4PCB)

DELUXE METAL ENCLOSURE

12 V Battery Backup

Ethernet Port: Connect to web browser or WIN-PAK software

RS-485 or Ethernet: Connect panels downstream and/or connect to WIN-PAK software

Built-in PCI Function

Color-coded terminal labels

Removable terminal blocks
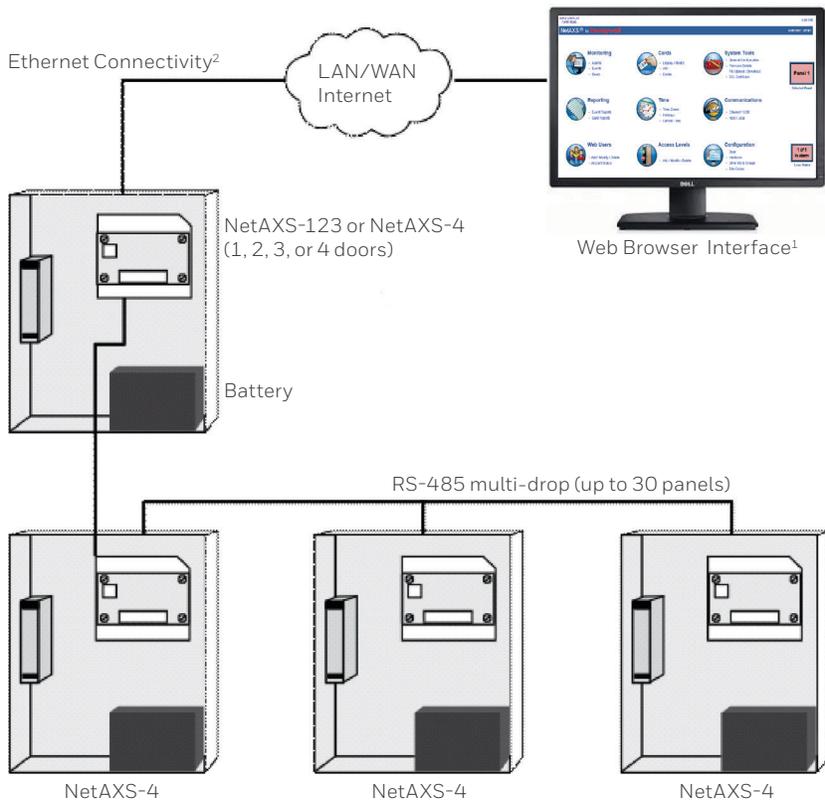
Panel tamper switch and monitoring included

Convenient 110 V Plug

Pre-Wired Panel Design

Fire-Rated Lock Power Released

Fused Relay Distribution Module

Power Door Locks

24 V Battery Backup

Noise Suppression Filter

System Overview

›4 DOORS
Scalable Architecture
RS-485 panel loop

Ethernet Connectivity[2]

LAN/WAN Internet

Web Browser Interface[1]

NetAXS-123 or NetAXS-4 (1, 2, 3, or 4 doors)

Battery

RS-485 multi-drop (up to 30 panels)

NetAXS-4

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NetAXS-4

1. Also compatible with 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 mixing NetAXS-123 and NetAXS-4 (v 3.04.15 or higher) controllers, the NetAXS-123 must be configured as the first panel or gateway.

3. NetAXS-123 v5.0 or later supports Ethernet Virtual Loop (EVL). NetAXS-4 does not support EVL. Systems using EVL must use NetAXS-123 panels.

NetAXS-4 Technical Specifications

	SPECIFICATIONS	NX4S1	NX4L1
COMMUNI-CATIONS	BUILT-IN COMUNNICATION OPTIONS	Ethernet; RS-485	
	I/O EXPANSION MODULE CONNECTIVITY	Use RS-485 port to connect a maximum of 6 downstream 1.0 modules (4 output and 2 input)	
	CONTROLLER LOOP CAPABILITY	Total of 31 panels in a loop[1,2]	
READERS/DOORS	DOOR/READER CAPABILITY	Four Door/Reader Controller	
	EXPANDABILITY	Expandable up to 124 doors (124 readers) per controller loop[1,2]	
	READER COMPATABILITY	Standard Wiegand protocol supported; ABA not supported	
OUTPUTS	NUMBER OF OUTPUTS	Eight SPDT, Form C relays rated at 10 A @ 28 V DC Eight open collector outputs (OC) (16 ma. 12 V DC): 4-reader LED (Aux. Output) and 4-reader buzzer (Aux. Output) available	
	OUTPUT EXPANDABILITY	4-door solution expandable to 72 total outputs using a maximum of four (4) NX4OUT relay output boards	
	RELAY POWER SOURCE	0 to 28 V DC externally supplied source	@24 V DC self-powered
INPUTS	NUMBER OF INPUTS	14 configurable four-state supervised input points	
	INPUT EXPANDABILITY	Expandable to 78 total inputs using a maximum of two NX4IN relay input boards	
	POWER-FAIL AND PANEL TAMPER	Yes	Yes
POWER INPUTS	UNIT INPUT	120 V AC, 6 A, 60 Hz input for wall transformer provides 16.5 V AC @ 50 VA output	115 V AC, 2 A, 60 Hz power supply input provides 24 V AC @ 6 A output
	SOCKET OR HARDWARE AC INPUT	—	Yes
	CONTROL BOARD POWER INPUT	16.5 V AC from included wall mount transformer	+24 V DC from included power supply
POWER OUTPUTS	POWER FOR READER(S) AND INPUT DEVICES	600 mA auxiliary current available to power the readers and other devices	
	POWER FOR LOCKS/STRIKES	Locks/strikes must be externally powered	1.1 A per door for locks/strikes (4.4 A @ 24 V DC total)
	BACKUP BATTERY SYSTEM	12 V DC, 7 AH battery	Two 12 V DC, 7 AH batteries
ENCLOSURE	MATERIAL	Metal	Metal
	PHYSICAL ENCLOSURE SIZE	18"H x 15"W x 4.5"D	23.9"H x 17.7"W x 4"D
	WIRING ACCESS HOLES/KNOCKOUTS	8	30
INSTALLATION	REMOVABLE TERMINAL BLOCKS WITH COLOR-CODED LABELS	Yes	
	GRAPHIC WIRING CARDS/LABELS	Yes	
	CABLE SHIELD TERMINATION POINTS	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 MTBF (MEAN TIME BETWEEN FAILURES)	250,000 hours	
	TEMPERATURE RATINGS	Operating: 32°F to 120°F (0°C to 49°C); Storage: -67°F to 185°F (-55°C to 85°C)	
	CERTIFICATIONS AND APPROVALS	CE and FCC compliant; UL-294 listing	
LEDs	STATUS LEDs	19 LEDs total (Power, system run, Ethernet, loop, downstream, readers, relay status)	
HOST	SOFTWARE COMPATABILITY[3]	WIN-PAK XE/SE/PE/CS with 256-bit AES encryption.	
	NETAXS-123 AS GATEWAY PANEL	Supported downstream panels include NetAXS-123 and NetAXS-4. See notes 1 & 2 on the right.	
	NETAXS-4 AS GATEWAY PANEL	Currently supported downstream panels include NetAXS-4 only. See notes 1 & 2 on the right.	
	USING PCI3 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 CUSTOM ACTIONS	Yes	
	ANTI-PASSBACK CAPABILITY	Local and global capability; hard and soft implementation.	

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 can NOT 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.

3. Software compatibility for NetAXS: All NetAXS versions programmed as N10000: 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.

4. When using WIN-PAK software, this feature may have limitations or not exist.

NetAXS-4 Technical Specifications

	SPECIFICATIONS	NX4S1	NX4L1
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)[1]	
	NUMBER OF CARD FORMATS	128 unique card formats can be supported[1]	
	SITE CODES	8	
	MAXIMUM CARD FORMAT SIZE	75-bit (maximum card # = 64-bits) [1, 2]	
	TIME ZONES	127[1]	
	ACCESS LEVELS	128	
	HOLIDAYS	255[1]	
REPORTING AND ANALYSIS	INTEGRATED BASIC REPORTS	Yes	
	IMPORT/EXPORT OF CARD DATABASE	Yes	
	ALARMS AND EVENTS CAN BE EXPORTED AND SAVED IN OFFLINE STORAGE	Yes	
EMBEDDED WEB SERVER	SUPPORTED BROWSERS	Internet Explorer and Mozilla Firefox	
WORLDWIDE ACCEPTABILITY	GLOBAL LANGUAGES SUPPORTED	English, Italian, French, Dutch, Spanish, Czech, and Simplified Chinese	
	USER TRANSLATED FILES	Customer ability to export, import, modify, create, and add language files. Can be selected for use with unique login accounts.	

1. When using WIN-PAK software, this feature may have limitations or not exist.

2. Suitable for handling the 75-bit transparent card format of PIV, TWIC, and FRAC cards.

3. All NetAXS accessories are compatible with both the NetAXS-123 and NetAXS-4.

4. Requires 24V DC, 2.3A (55 Watts).

ORDERING

NETAXS-4 WEB-BASED 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

NETAXS-4 ACCESS CONTROL STARTER KITS WITH READERS	
WPNX4L30	NetAXS-4: IP Ready Access Starter Kit with WIN-PAK SE, NX4S1 Deluxe Standard Enclosure Option and (4) OP30HONR Mullion Proximity Readers
WPNX4S30	NetAXS-4: IP Ready Access Starter Kit with WIN-PAK SE, 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 ACCESSORIES[3]	
NX4IN[4]	NetAXS Input Board - 32 inputs per board. Connect 2 per panel. Total 64 inputs.
NX4OUT[4]	NetAXS Output Board - 16 outputs per board. Connect 4 per panel. Total 64 inputs.
NXIOENCKT	Double board enclosure for NX4IN, NX4OUT

For more information

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