

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



12 V Battery Backup

CONTROL PANEL (NX4PCB)

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

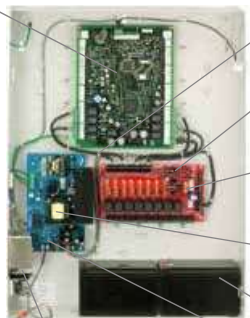
RS-485 or Ethernet: Connect panels downstream and/or connect to WIN-PAK software

Built-in PCI Function Color-coded terminal labels

Removable terminal blocks

Panel tamper switch and monitoring included

DELUXE METAL ENCLOSURE



Convenient 110 V Plug

Pre-Wired Panel Design

Fire-Rated Lock Power Released

Fused Relay Distribution Module

Power Door Locks

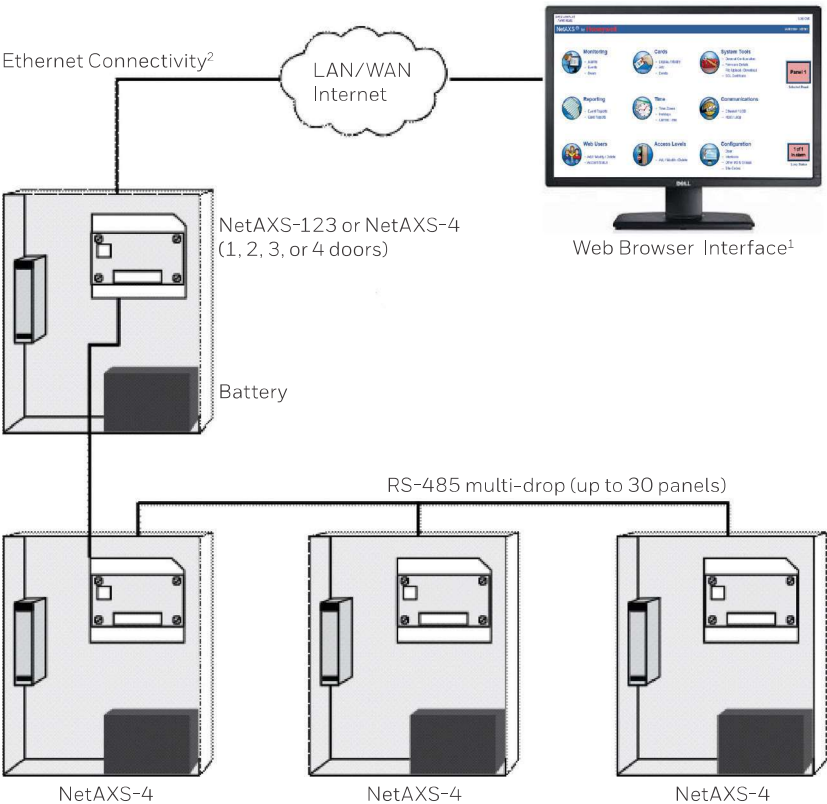
24 V Battery Backup

Noise Suppression Filter

System Overview

>4 DOORS

Scalable Architecture
RS-485 panel loop



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
COMMUNICATIONS	BUILT-IN COMMUNICATION 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 ¹	
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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L/NXS4D/D | 10/17
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PRO3200

Professional Series Access Modules



The PRO3200 professional series family of access control modules is designed for high density installations. Supporting up to 16 readers per enclosure and 32 readers per intelligent controller along with up to 100,000 card capacity provides a combination of small installation footprint and superior cost per door ratio.

The PRO22R1 provides I/O support for one card access reader, while the PRO32R2 supports two card access readers. Both interface with the intelligent control module (PRO32IC). In the event that communication to the intelligent control module is lost, the card access readers can be individually configured to allow entrance based on security needs. This customization allows for a door to be configured as locked, unlocked, or access only via valid facility code.

The PRO32OUT interfaces with the intelligent control module (PRO32IC) providing up to 12 or 16, Form C, 12 VDC, 2A relay output controls depending if the board is rack or tile-mounted and power fail and panel tamper when tile mounted. Relays may be used for elevator control, status annunciation and for general facility control, such as door monitoring.

The PRO32IN interfaces with the intelligent control module (PRO32IC) providing 16 supervised alarm inputs and a dedicated power fail and panel tamper when tile mounted. An analog to digital converter samples the input values and the digitized result is filtered and processed. Filter parameters are configurable for each input point, resulting in the ability to specify a custom End-Of-Line (EOL) resistance value, sensitivity range and timing parameter.

The PRO3200 Series of access modules are designed to accommodate various mounting options. Units can be mounted in a rack configuration (PRO22ENC1, PRO22ENC2 and PRO22ENC5) when space is limited, or in a tile-mount configuration (PRO22ENC3).

- The PRO22ENC1 is a wall-mounted enclosure rack unit
- The PRO22ENC2 is a 19" rack-mounted enclosure rack unit
- The PRO22ENC5 is a rack unit which fits inside a customer's enclosure

FEATURES

- Modular design fits a wide variety of applications
- Up to 9 modules, power-supply and battery can be accommodated by the PRO22ENC1, PRO22ENC2 and PRO22ENC5 (no battery) enclosures
- User programmable relay outputs allow for specific control needs
- User programmable alarm inputs offer flexible system configuration and control
- RS485 communication to all modules
- Analog to digital converter technology provides digital filtering and input conditioning
- Dedicated cabinet tamper and power monitor inputs
- Supports the choice of normally open, normally closed, supervised, and non-supervised circuits
- Supports a wide range of reader technologies including Wiegand, magnetic stripe, proximity, and keypad
- System off-line modes customizable per reader include facility code access, locked (no access), and unlocked (full access)
- Supports multiple reader and card formats for maximum flexibility and security options
- Operating modes include locked, unlocked, facility code, card only, card and PIN, card or PIN and PIN only
- Communication to the host is via either 10/100 Ethernet or RS-232 (both are standard)
- Alarm circuit type - normally open, normally closed, non-supervised, supervised (with correct EOL). Meets requirements for UL294 and CUL
- Any combination of 16 I/O or readers modules may be connected to the PRO32IC RS485 ports. 4,000 ft (1,250 m) total bus length per port
- Supports over 50,000 cards and 50,000 transactions

PRO3200

Professional Series Access Modules

SPECIFICATIONS

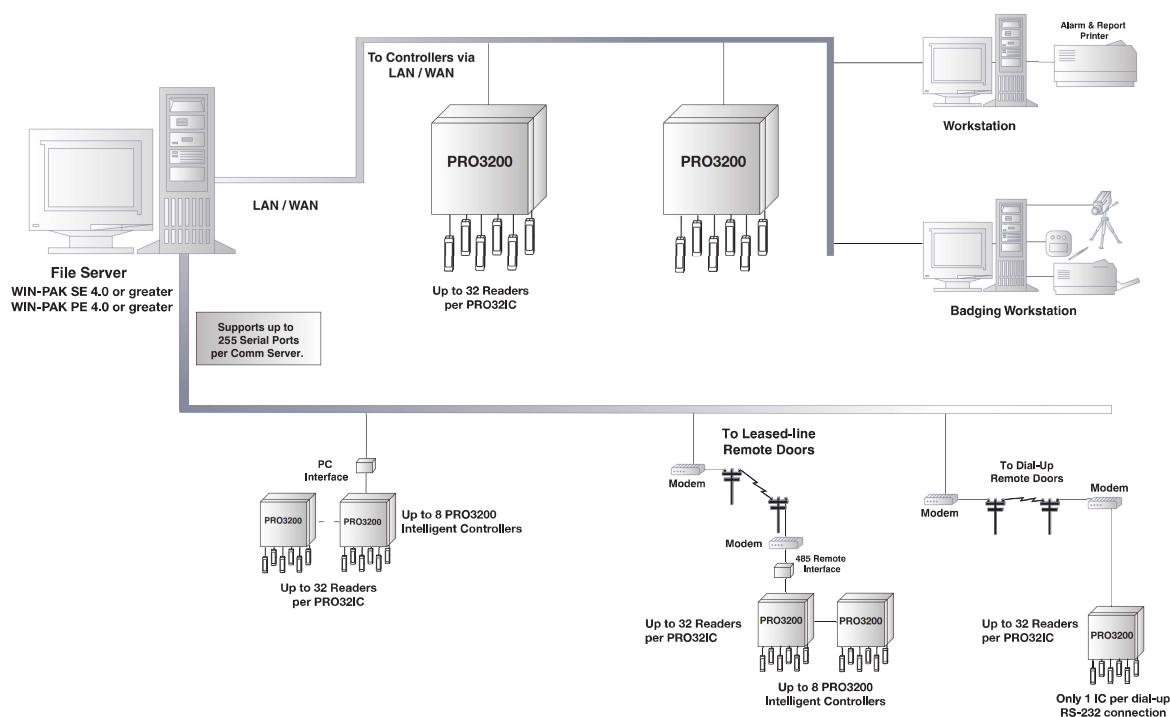
	PRO3200 Series Single Reader Module (PRO22R1)	PRO3200 Series Dual Reader Module (PRO32R2)
Module Specifications		
Port	1 reader port - 12 VDC at 50 mA, clock / data or data0 / data1	2 reader ports - 12 VDC at 50 mA, clock / data or data0 / data1
Keypad	Keypad multiplexed with card data	
Wire Support	Two-wire or one-wire bi-color LED support	
Buzzer Support	Buzzer support only with one-wire LED control	
Alarm Inputs	2 supervised, general purpose alarm inputs with programmable circuit type	8 supervised, general purpose alarm inputs with programmable circuit type (only 6 supervised inputs available when using PRO22ENC1, PRO22ENC2 and PRO22ENC5 enclosures)
Alarm Inputs	1 dedicated alarm input for tamper detection	2 dedicated alarm inputs for tamper detection and power loss
Output Relays	1 general purpose output relay, form C, 5 A 28 VDC	2 general purpose output relay, form C, 5 A 28 VDC
Output Relays	1 general purpose output relay, form C, 1 A 28 VDC	4 general purpose output relay, form C, 2 A 28 VDC (only 2 output relays available when using PRO22ENC1, PRO22ENC2 and PRO22ENC5 enclosures)
Mounting	Designed to be tile-mounted using the PRO22ENC4 enclosure	N/A
Alarm Input Properties		
Inputs	Inputs may be assigned to door related functions or general purpose I/O	
Circuit Type	Circuit type - normally open, normally closed, non-supervised, supervised (with standard 1K or custom end-of-line resistance 200-10K)	
Line Conditioning	Line conditioning - programmable sensitivity and hold time	
Output Control Properties		
Outputs	Outputs may be assigned to door related functions or general purpose I/O	
Relay Rating	The 5 A relay(s) are rated to handle the inductive loads of door locking devices	
Configurable	Configurable as standard (energize to activate) or fail-safe (de-energize to activate)	
Pulse Time	1-32,400 seconds, 1-255 for door relays	
RS485 Port	RS485 port, 4,000 ft (1,250m) total bus length	
Standard Speed	38,4 Kbps	

	PRO3200 Series Sixteen Relay Output Module (PRO32OUT)	PRO3200 Series Sixteen Alarm Input Module (PRO32IN)
Module Specifications		
Alarm Inputs	2 dedicated alarm inputs for tamper detection and power loss (tile-mounted only)	
Alarm Inputs	N/A	16 general purpose inputs with programmable circuit type
Output Relays	12 general purpose output relays, form C, 2 A 30 VDC (16 are available when using PRO22ENC3 tile-mounted enclosure)	2 general purpose, form C, 2 A 30 VDC relays (only one available when using PRO22ENC1, PRO22ENC2 and PRO22ENC5)
Output Control Properties		
Outputs	All 16-relay outputs in the tile-mount configuration (12" rack-mount) are available for general purpose I/O	Both relay outputs are available for general purpose I/O
Dry Circuit Logic	The 2 A relays are rated to handle dry circuit logic	Both relay outputs are rated to handle dry circuit logic
Pulse Time	1-32,400 seconds	
Configurable	Configurable as standard (energize to activate) or fail-safe (de-energize to activate)	N/A
Alarm Input Properties		
Inputs	N/A	All 16 inputs may be assigned to door related functions or general purpose I/O
Circuit Type	N/A	Circuit type - normally open, normally closed, non-supervised, supervised (with correct EOL)
Line Conditioning	N/A	Line conditioning - programmable sensitivity and hold time
Communication Features		
Measurements	RS485 port, 4,000 ft (1,250m) total bus length per port	
Speed	38.4 Kbps	

BENEFITS

- Anti-passback support - free pass and exempt flags, last area accessed, last reader accessed and time/date of last access
- Modular hardware architecture provides flexibility and expansion capabilities
- Large, local controller database allows access control decisions to be made by controller in real time without the need to communicate to the server
- ADA compliant allowing expanded door times selectable per reader
- Scalable architecture ensures optimal performance with a seamless upgrade path to accommodate future growth beyond its initial installation
- Four-state alarm input circuits - normally opened, normally closed, non-supervised, supervised (w/EOL)
- Rack or tile mounting options available
- Alarm conditioning with programmable sensitivity and hold time
- Selectable reader states include card and PIN, card or PIN, card only, or PIN only
- Auto switching power supply allows 110 / 220 operation
- System off-line modes customizable per reader include facility code access, locked (no access), and unlocked (full-access)
- Supports multiple reader and card formats for maximum flexibility and security options

PRO3200 CONFIGURATION



Module	Readers	PRO22ENC1		PRO22ENC3	
		Inputs	Outputs	Inputs	Outputs
PRO22R1	1	N/A	N/A	2	2
PRO32R2	2	6	4	10**	6
PRO32OUT	0	0	12	2**	16
PRO32IN	0	16	1	18**	2
**Two are used to monitor Power and Tamper					
PRO22ENC1=9 Board Capacity / PRO22ENC3=2 Board Capacity					

PRO3200

Professional Series Access Modules

SPECIFICATIONS

Dimensions:

- Board: 9.0" H x 5.5" W x 1.0" D (22.9 cm H x 14 cm W x 2.5 cm D)
- PRO22ENC1: 13.9" H x 17" W x 9" D (35.3 cm H x 43.2 cm W x 22.9 cm D)
- PRO22ENC2: 13.9" H x 18.9" W x 9" D (35.3 cm H x 48 cm W x 22.9 cm D)
- PRO22ENC3: 14" H x 16" W x 4" D (35.6 cm H x 40.6 cm W x 10.2 cm D)
- PRO22ENC4: 8.37" H x 7.63" W x 7.63 D (21.28 cm H x 19.4 cm W x 19.4 cm D)
- PRO22ENC5: 9.35" H x 16.85" W x 5.6" D (23.7 cm H x 42.8 cm W x 14.2 cm D)

Environment:

- Temperature: 0°C to 49°C operational; -55°C to 85°C storage
- Humidity: 0 to 85% RHNC

Wire Requirements:

- Power - twisted pair, 18 AWG
- RS485 - 24 AWG, 4,000 ft (1,200m) max, two twisted pairs with shield (120 ohms, 23 pF, Belden 9842 or equiv)
- RS-232 - 24 AWG, 25 ft (7.6m) max
- Alarm input - twisted pair, 30 ohms max

Enclosures:

- PRO22ENC1 (Wall-mount) Capacity: 9 modules. Power supply and battery not included
- PRO22ENC2 (19" Rack-mount) Capacity: 9 modules. Power supply and battery not included
- PRO22ENC3 (Tile-mount) Capacity: 2 modules. Power supply and battery included
- PRO22ENC4 (Tile-mount) Capacity: 1 module (PRO22R1 only). Power supply and battery included
- PRO22ENC5 (Cage only for custom enclosures) Capacity: 9 modules. Power supply and battery not included

ORDERING

PRO3200 Controllers

PRO32IC	PRO3200 Intelligent Controller
PRO22R1	PRO2200 Single Reader Module
PRO32R2	PRO3200 Dual Reader Module
PRO32OUT	PRO3200 16 Relay Output Module
PRO32IN	PRO3200 16 Alarm Input Module

PRO-Series Enclosures

PRO22ENC1	(Wall-mount) Capacity: 9 modules. Power supply and battery not included
PRO22ENC2	(19" Rack-mount) Capacity: 9 modules. Power supply and battery not included
PRO22ENC3	(Tile-mount) Capacity: 2 modules. Power supply and battery included
PRO22ENC4	(Tile-mount) Capacity: 1 module (PRO22R1 only). Power supply and battery included
PRO22ENC5	(Cage only for custom enclosures) Capacity: 9 modules. Power supply and battery not included

PRO3200 Starter Kit with Software

PRO32SKD8	8 Door Starter Kit (1) PRO32E1D8 with WIN-PAK SE Software
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PRO3200 Expansion Kits

PRO32E1D2	2 Door Kit (1) PRO32R2, (2) S-4 and (1) PRO32E1EN
PRO32E1D4	4 Door Kit (2) PRO32R2, (4) S-4 and (1) PRO32E1EN
PRO32E1D8	8 Door Kit (4) PRO32R2, (8) S-4 and (1) PRO32E1EN

Optional Accessories

PRO22DCC	Daisy Chain cable required for PRO22ENC1, PRO22ENC2 and PRO22ENC5
PRO32E1PS	4 A rack-mounted power supply with battery backup required for PRO22ENC1, PRO22ENC2 and PRO22ENC5

Network Kits

PRO32E1EN	Includes: PRO22ENC1, PRO32IC, PRO32E1PS, PRO22BAT1 and PRO22DCC
PRO32E2EN	Includes: PRO22ENC2, PRO32IC, PRO32E1PS, PRO22BAT1 and PRO22DCC

For more information: www.honeywellaccess.com

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L/PRO3200AMD/D
April 2014
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PRO-WATCH® 5.0

Connected Building Platform

Honeywell's Pro-Watch® software is a connected building platform for enterprise and critical infrastructure customers.

Pro-Watch helps you meet the most stringent compliance requirements for your industry, and it reduces your total cost of ownership by increasing operator productivity with superior flexibility and scalability.

Integration with access control and video systems from Honeywell and third-party manufacturers makes it possible to leverage existing installed hardware as the system expands. Modular hardware and software options make it easy and cost-effective to expand a system to keep up with growing business needs.

Pro-Watch Intelligent Command is a web-based common user interface that provides valuable enhancements to security system. These ensure compliance with stringent industry regulations. For instance, Intelligent Command enables operators to respond rapidly and effectively to alarms or incidents by providing a Standard Operating Procedure (SOP) that shows the process that should be followed. This reduces both compliance exceptions and security risks. This web interface offers components such as: Badging, Reporting, Alarm Monitoring, Admin Module, Events Module, Enterprise Module, Maps Module, Incidents Module, Maintenance Module, Firmware Upgrade, and Password Change.

Pro-Watch streamlines tasks with a common user interface to improve operator effectiveness and help organizations minimize training costs.



Pro-Watch provides comprehensive options for audit and reporting to address forensics, compliance and business intelligence data mining needs. The Reporting application includes basic report templates and the capability to generate custom reports. Reports can be exported as XLS, CSV and PDF formats.

Pro-Watch provides a solid and proven platform for an intelligent business management solution. It is successfully deployed in enterprises of many sizes and across various vertical applications such as manufacturing facilities, campuses, government facilities and critical infrastructure.

PERFORMANCE FEATURES AT A GLANCE

- Web Based Client for Badging, Reporting, Alarm and Event Monitoring
- Mobile Client for Badging, Badging Verification, and Door Control
- Server support including Windows® Server 2012/2016/2019, Windows 10 (32-bit and 64-bit), SQL Server 2012/ 2014/ 2016/2019
- Single user interface for multiple security and business functions
- Honeywell Software Development Kit (HSDK) and Pro-Watch can be integrated with other building systems such as secondary fire, lighting and heating, ventilation, and air conditioning
- Web Services API enables Integration to third-party systems and Active Directory
- Certification Management
- Event/action associations including sending emails, running a stored procedure, or triggering a panel I/O point
- Pro-Watch-level triggered events for panel-to-panel and panel-to-software actions or within a panel for local actions
- Advanced Reports
- Support for Microsoft Azure
- Virtualization support for VMWare and Microsoft® Hyper-V
- Compliance Reports that offer data and statistical reporting; auto generated reports upon schedules
- Easy system setup and maintenance with user definable hardware templates
- Database partitioning and definable operator permissions
- Mercury M5 (CASI) and MS Bridge (Software House) Controller
- Lite, Professional, Corporate and Enterprise editions

Honeywell

SMALL SYSTEMS: PRO-WATCH LITE AND PRO-WATCH PROFESSIONAL EDITIONS

Pro-Watch Lite Edition (PWLT) and Pro-Watch Professional Edition (PWPE) are optimized for the needs of smaller security systems.

These editions leverage Microsoft® SQL Express 2016 (included), so the server can be accommodated on either a workstation for a single PC or on a separate server. In either case, additional clients may be connected to the server up to supported limits. Refer to the specifications guide on page 5 for more details.

Pro-Watch Lite Edition offers basic functionality for the small office and features Pro-Watch PW Series access controllers. Additional client licenses can be added as needed up to a total of 4.

Pro-Watch Professional Edition is ideal for sites requiring more than 32 readers or up to 6 client workstations.

MEDIUM & LARGE SYSTEMS: PRO-WATCH PROFESSIONAL AND PRO-WATCH CORPORATE EDITIONS

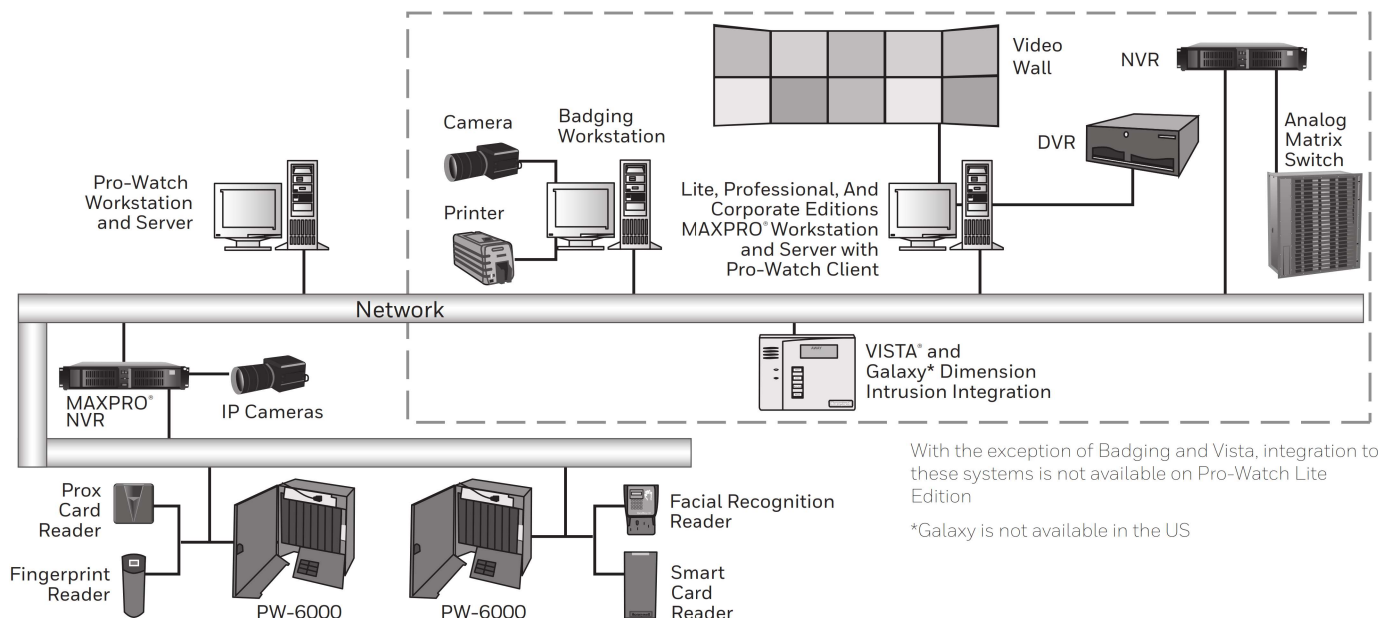
Both Pro-Watch Professional Edition (PWPE) and Pro-Watch Corporate Edition (PWCE) are targeted for the needs of medium to large installations.

An IT topology deployment with a separate server is recommended. Workstations can be connected via LAN or WAN, making it convenient to manage multiple sites on a single server. Pro-Watch Professional Edition features Microsoft SQL Express 2016 (included).

Both editions offer numerous options to meet a variety of security needs. For limits on connectivity support in PWPE, refer to the specifications guide on page 5.

PWCE is truly the best fit for the largest systems and campuses because it has no restrictions on numbers of add-on readers or workstations. Honeywell also offers redundant solutions on PWCE for organizations requiring 24/7 operations.

Integrations available using Pro-Watch



PRO-WATCH 5.0 CONNECTED BUILDING PLATFORM

ENTERPRISE SYSTEMS: PRO-WATCH ENTERPRISE EDITION

Pro-Watch Enterprise Edition (PWEE) provides a security solution for the global organization by sharing badgeholder identities and event data across the organization.

With a PWEE system, an enterprise server facilitates two-way data sharing among regional servers. This enables single credential solutions across organizations.

If equipped with two or more Pro-Watch Corporate Editions (PWCE), an organization may easily upgrade its servers to become part of an Enterprise system. Each Corporate Edition server becomes a regional server and retains regional system control.

The Pro-Watch suite offers base software licenses that address security needs from small sites to global enterprises:

PRO-WATCH LITE EDITION:

Basic functionality for the small office with support for up to 32 doors on PW-Series panels.

PRO-WATCH PROFESSIONAL EDITION:

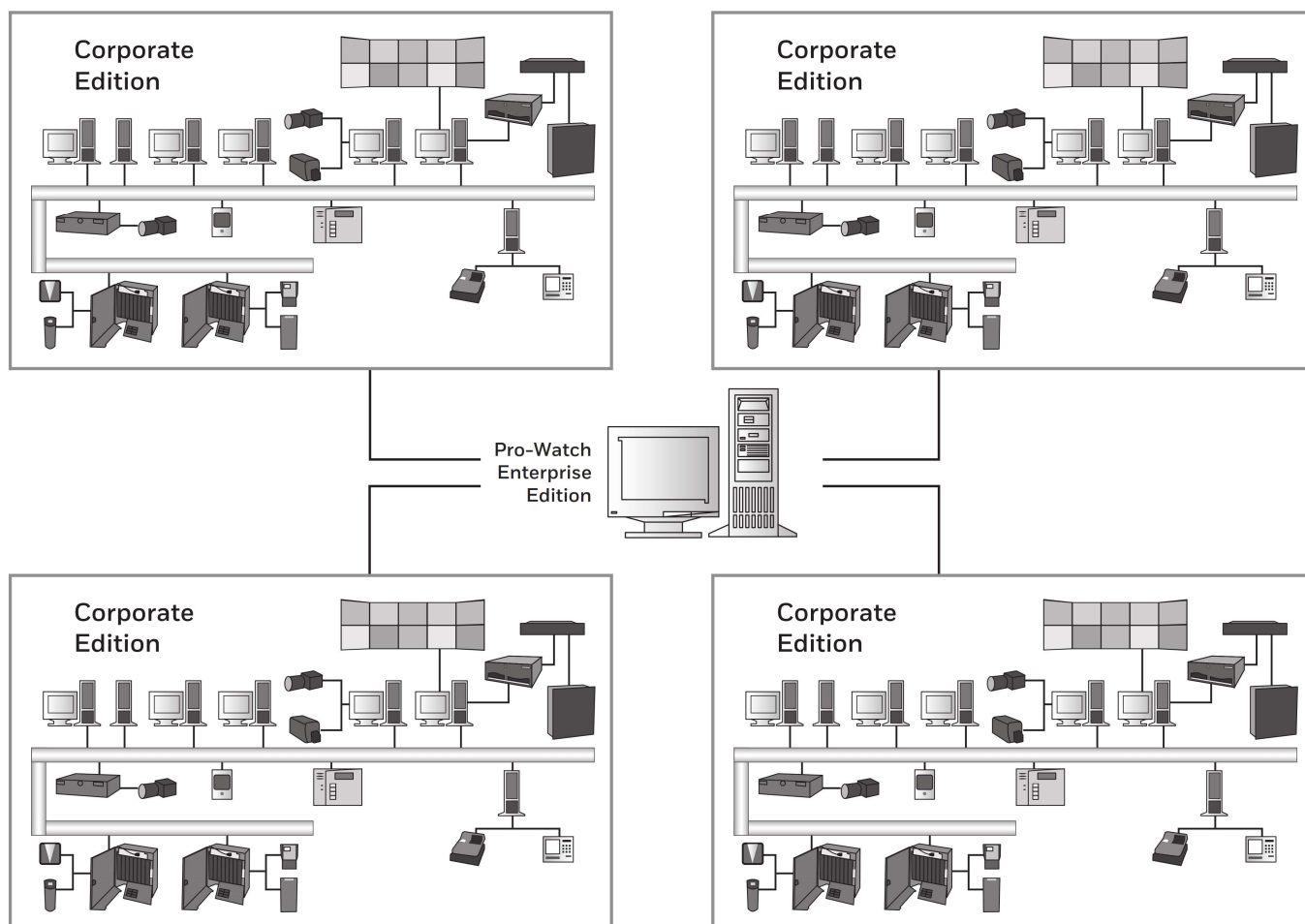
Complete security functionality with more options for medium-sized organizations with up to 64 doors for organizations requiring integrated processes or regulatory compliance.

PRO-WATCH CORPORATE EDITION:

Complete security for larger organizations and campuses. Additional high availability options make this edition the optimal choice for organizations requiring 24/7 business continuity plans for their security system.

PRO-WATCH ENTERPRISE EDITION:

Global security system that merges multiple Pro-Watch Corporate Edition systems to efficiently manage badgeholder data and report on events across the organization.



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PROFESSIONAL, CORPORATE & ENTERPRISE EDITIONS

- Standard Badging and Advanced Badging client
- 2-D PDF417 barcode add-on license for badging
- Option for Transportation Security Clearinghouse (TSC) background checks in Pro-Watch AP (Airport) and Vendor Management Portal
- Integration to Honeywell VISTA® panels 128 /250 FBP, FBPT, BPE, and BPT, and GX in North America and to Honeywell Galaxy Dimension GD-48, GD-96, GD-264, GD-520 in Europe
- Event Procedures triggers on consecutive duplicate events
- Mustering, anti- passback and guard tour
- Minimum and maximum occupancy enforcement
- Integrates video devices added in MAXPRO® VMS
- Supports Commend intercom system servers GE200, GE300, GE700 and GE800
- Detailed historic records for tracking configuration changes, security operations and device events to comply with audit requirements for regulatory compliance
- Intercoms linked to readers and locations on maps provide quick access to specific units
- Options for integrating biometrics, third-party hardware, radar-video solutions and IT convergence
- High availability and redundant server solutions (Corporate and Enterprise Edition)
- Support for Wireless Locksets from Allegion, Assa Abloy, and Salto
- Support for Disconnected Locksets from Salto
- Direct support for Biometric Readers from Morpho and Iris ID
- FICAM PACS Infrastructure APL Listed

PRO-WATCH 5.0 SPECIFICATIONS

	LITE	PROFESSIONAL	CORPORATE	ENTERPRISE ³
STANDARD CLIENT LICENSES (NON-BADGING)				
Quantity included with base system	2	2	2	2
Maximum quantity that can be added	4	5	Unrestricted	Unrestricted
BADGING/ADVANCE BADGING CLIENT LICENSES				
Quantity included with base system	1	1	1	N/A
Maximum quantity that can be added	2	5	Unrestricted	N/A
READER LICENSES				
Quantity included with base system	32	32	96	N/A
Maximum quantity that can be added	0	32	20,000	N/A
REGIONAL SERVER LICENSES				
Quantity included with base system	N/A	N/A	N/A	1
Maximum quantity that can be added	N/A	N/A	N/A	Unrestricted ²
COMPLIANCE REPORT MANAGER CLIENT LICENSES				
Quantity included with base system	N/A	N/A	N/A	N/A
Maximum quantity that can be added ³	Limited by Standard Client Licenses	Limited by Standard Client Licenses	Limited by Standard Client Licenses	N/A
DATABASE SUPPORT				
SQL 2012, 2016, 2017 and 2019 Express (10 GB maximum database size)	YES	YES	YES	NO
SQL 2012, 2014, 2016, 2017 and 2019 Standard	NO	NO	YES	YES

- 1 Must have a standard client license on a machine in order to run an Advanced Badging client license.
- 2 Must order one regional server in an Enterprise system for each PWCE server in the system.
- 3 Enterprise system capabilities align with Corporate for respective regional servers.
Enterprise systems link together two or more Corporate Edition systems to share badgeholder identities and events among the Corporate Edition systems.

PRO-WATCH CLIENT WORKSTATION ¹ SPECIFICATIONS	
FEATURE	RECOMMENDED
Processor	Intel® Core™ i3, i5, or i7 Processor 2.8 GHz or higher
PC Type	Workstation or Server hardware
System Memory (RAM) ¹	8 GB for Windows 8.1 (32 and 64 bit) 8 GB for Windows 10
Operating System	Windows 10 (32 or 64 bit) Windows 2012/2016/2019 Server Enterprise or Standard edition (32 or 64 bit) NOTE: ALL versions require Professional edition or higher
DVD Drive	Yes
Hard Drives	Capacity, Speed, Interface: 80 GB or larger 7,200 RPM SATA or SAS
USB Connection	2.0
Network Connection	100Mbps/sec or greater, GB recommended
Video Resolution	1920x1080 pixels; 24 bit color or higher
Multimedia	Standard VGA Graphics Adapter (Display adapter)

1 Includes RAM required by the client machine to run the Windows operating system.

PRO-WATCH 5.0 SPECIFICATIONS

PRO-WATCH SERVER ¹ SPECIFICATIONS		
FEATURE	SMALL SYSTEM REQUIREMENT	LARGE SYSTEM REQUIREMENT
Recommended Processor	2 nd Generation Intel® Xeon® Scalable Processors™ W/Silver/Gold/Platinum (12 cores or greater) 3.2 GHz Max Turbo frequency	2 nd Generation Intel® Xeon® Scalable Processors™ W/Silver/Gold/Platinum (24 cores or greater) 3.6 GHz Max Turbo frequency
Recommended Operating System	Windows 10* build 1067 or higher Windows Server 2012/2012 R2/2016/2019 * Requires Professional edition or higher	Windows Server 2012/2012 R2/2016/2019
Recommended Database System	SQL Server 2012/2014/2016/2017/2019	SQL Server 2012/2014/2016/2017/2019
Email Notification	Required for SMTP Server. Used for integrated identity authentication.	Required for SMTP Server. Used for integrated identity authentication.
Recommended PC Type (Server or Workstation)	Workstation or Server hardware	Server hardware recommended Workstation hardware supported (requires stability in mission critical environments)
Recommended System Memory (RAM)	24 GB minimum, 32 GB recommended or greater (based on OS selected)	32 GB minimum, 64 GB recommended
DVD Drive	Yes	Yes
Hard Drives ^{2,3}	Capacity, Speed, Interface: 160 GB SSD or 7,200RPM or higher SATA or SAS *Size may vary according to transaction storage and other variables such as archives, backups, etc.	RAID Array 1: (OS or hardware based RAID 1) Capacity, Speed, Interface: 160 GB SSD or 7,200RPM or higher SATA or SAS (SSD preferable) RAID Array 2: (Application Databases) (Hardware based RAID 5 or RAID 10) Capacity, Speed, Interface: 300 GB 7,200RPM or higher SATA or SAS *Size may vary according to transaction storage and other variables such as archives, backups, etc.
Removable media for database backup ⁴ database backup ¹	160 GB or larger USB or eSATA drive	300 GB or larger USB drive or eSATA drive
Network connection	100Mbps/sec or greater, GB recommended	100Mbps/sec or greater, GB recommended
Video resolution	1920x1080 pixels; 24 bit color or higher Standard VGA Graphics Adapter (Display adapter)	1920x1080 pixels; 24 bit color or higher Standard VGA Graphics Adapter (Display adapter)

- For a system to be considered small, the Pro-Watch system shall have less than 5 clients, no more than 128 online readers, less than 5000 historical events per day, and proper database maintenance conducted by the end user or servicing dealer. For a system to be large, it must have between 5000 and 50,000 historical events per day, between 128 and 512 online readers, between 5 and 15 client workstations, and proper database maintenance conducted by the end user or servicing dealer. If the system will have more than 50,000 events per day, exceed 512 online readers, exceed 15 client workstations, or use Pro-Watch server side functions like anti-passback, event triggers and procedures, Real Time Data Transfer Utility, HSDK, etc. please consult Honeywell for custom server sizing.
- RAID technology used for the larger system server – Disk sets 1 and 2. When several physical disks are set up to use RAID technology, the operating system will be installed on a single disk (OS installed on RAID1 mirrored set) and the Database and Storage on a separate disk (RAID 5 or 10 disk set)
- To estimate database storage space, use the following approximations and add to the base DB size of 500MB:
 - Badgeholder storage = (# of badgeholders) x (7.5KB)* estimate based on typical captured picture size
 - Event history storage = (# of events per day) x (2.5 KB) x (# of days to retain in server)
 - Audit history storage = [(# of cardholder changes per day) + (# of system configuration changes per day) + (# of events per day) + (# of operator system changes per day)]* (1.2KB) x (# of days to retain in server)
- Honeywell highly recommends some type of removable media for daily database backups. Database backups should be removed from the server and stored in a safe, secure location so in the event of system failure this valuable data can be recovered. We recommend two or more removable media per server based upon end user processes. Alternatively, Honeywell system installers can engage the end-user's IT group to participate in some type of network backup program.
 - Important Notice – These server and workstation hardware guidelines are intended for use as a reference only. The specifications are subject to changes due to market conditions, software updates, manufacturing changes, and other variables outside of our control. Honeywell recommends for planning based on system growth and expansion, operating system updates and upgrades, database engine updates and upgrades, end user system expansion, historical data retention requirements, and archive data storage requirements. Please consult with Honeywell as applicable for assistance.

PRO-WATCH 5.0 ORDERING INFO

PART NUMBER	DESCRIPTION
PRO-WATCH LITE SOFTWARE	
BASIC SOFTWARE LICENSE	
PW50LTSW	Pro-Watch 5.0 LE Server Software - 1 Server License, 32 Reader License, 1 Concurrent User License, 1 Concurrent Advanced Badging License
ADD-ON CLIENT LICENSES	
PW50LTSWCL	Single Concurrent User LE Edition Software License add-on
PWBADGEL	Pro-Watch 5.0 Single Concurrent Classic/Advanced Badging License add-on. This includes license only and requires a single concurrent client license (part PW50LTSWCL)
UPGRADES	
PW50LTPE32R2U	Upgrade from Pro-Watch 5.0 LE to Pro-Watch PE with one client
PRO-WATCH PROFESSIONAL EDITION SOFTWARE	
BASE SOFTWARE LICENSE	
PW50PESW	Pro-Watch 5.0 PE Server Software - 1 Server License, 1 Concurrent User License, 1 Concurrent Advanced Badging License, 32 Reader License
ADD-ON CLIENT LICENSES	
PW50SWCL	Single User Software License add-on for PWPE and PWCE
PWBADGEL	Pro-Watch 5.0 Single Concurrent Classic/Advanced Badging License add-on. This includes license only and requires a single concurrent client license (part PW50SWCL)
ADD-ON READER LICENSES	
PWRDR32	32 Reader License add-on, in addition to the 32 standard readers. (PWPE supports a maximum of 64 readers)
PWWRDR	1 Wireless Reader License
UPGRADES	
PWPECE32R	Upgrade from PE to CE for one server, maintains user count from PE and increases readers from 32 to 96
PWPECE64R	Upgrade from PE to CE for one server, maintains user count from PE and increases readers from 64 to 96
PWSTDOMIC	1 Mercury Standard Protocol Intelligent Controller License

PRO-WATCH 5.0 ORDERING INFO

PART NUMBER	DESCRIPTION
PRO-WATCH CORPORATE EDITION SOFTWARE	
BASE SOFTWARE LICENSE	
PW50CESW	Pro-Watch 5.0 CE Server Software - 1 Server License, 1 Concurrent User License, 1 Concurrent Classic/Advanced Badging License, License for 96 readers
ADD-ON CLIENT LICENSES	
PW50SWCL	Single User Software License add-on for PWPE and PWCE
PWBADGEL	Pro-Watch 5.0 Single Concurrent Classic/Advanced Badging License add-on. This includes license only, and requires a single concurrent client license (part PW50SWCL)
ADD-ON READER LICENSES	
PWRDR32	32 Reader License add-on
PWRDR64	64 Reader License add-on
PWRDR128	128 Reader License add-on
PWRDR256	256 Reader License add-on
PWRDR512	512 Reader License add-on
PWWRDR	1 Wireless Reader License
PWDSCRDR	1 Salto Disconnected Wireless Reader License
PWSTDMERIC	1 Mercury Standard Protocol Intelligent Controller License

PRO-WATCH 5.0 ORDERING INFO

PART NUMBER	DESCRIPTION
COMMON ADD-ONS AND ACCESSORIES FOR PRO-WATCH PROFESSIONAL EDITION AND CORPORATE EDITION	
CLIENT ADD-ON LICENSES	
PWDWFX	Plug-in for viewing DWFX format files (supported by AutoCAD 2008 and later) in Pro-Watch. License required per concurrent standard client license (PW50SWCL)
PWPDF427	Plug-in for Classic, Advanced and Airport Badging: Allows generation of PDF427 2-D barcodes. License required per concurrent badging client (PWBADGEL)
INTRUSION PANEL CONNECTION LICENSES	
PWVISTA1	1 Panel License for VISTA®-FBP128/250, BPE128/250 and BPT128/250 (not available in Europe)
PWVISTA5	5 Panel License for VISTA-FBP128/250, BPE128/250 and BPT128/250 (not available in Europe)
PWVISTA10	10 Panel License for VISTA-FBP128/250, BPE128/250 and BPT128/250 (not available in Europe)
PWDIMEN1	License for One Dimension Intrusion Panel (not available in North America)
DATA IMPORT/EXPORT LICENSE	
PWDBUT	Pro-Watch Database Transfer Utility Import/Export
PWDBUT-API	Adds Door Control Functionality and Event Handling
INTEGRATION LICENSE	
HNMUGPWPE	Pro-Watch MAXPRO VMS integration license for Pro-Watch Professional Edition
HNMUGPWCE	Pro-Watch MAXPRO VMS integration license for Pro-Watch Corporate Edition
HNMUGPWCE-R	Pro-Watch MAXPRO VMS integration license for Pro-Watch Corporate Edition - Redundant
PWLW4	Pro-Watch LobbyWorks integration license
INTERCOM SYSTEM CONNECTION LICENSES	
PWINTSTENO	Pro-Watch interface to Stentofon Intercom System
PWINTCOMMEND	Pro-Watch interface to Commend Intercom System
DIRECT VIDEO CONNECTION LICENSES	
PW50INDWRKFL	Incident Workflow Client License
PRO-WATCH AIRPORT BADGING	Call for details
FAILOVER SOFTWARE LICENSES AND INSTALLATION SUPPORT	
NFHALAN	Neverfail's continuous availability solution provides automatic failover to a secondary, or if desired, tertiary server. Includes Neverfail for SQL Server – 2 Nodes and first year support. Please contact your regional sales rep for details

PRO-WATCH 5.0 ORDERING INFO

PART NUMBER	DESCRIPTION
REDUNDANCY FOR PRO-WATCH SERVER	
PW50CESWR	Pro-Watch 5.0 CE Server Software* 1 Server License, 1 Concurrent User License, 1 Concurrent Advanced/Classic Badging License, License for 96 readers, Pro-Watch Redundant
PW50EESWCLR	Redundant License Single User Software, Add-on to PWEE 5.0 Server
PW50SWCLR	Redundant Single Concurrent Pro-Watch 5.0 User Professional/Corporate Edition Software License Add-on
PWRDR32R	Redundant PWCE 32-Reader License
PWRDR64R	Redundant PWCE 64-Reader License
PWRDR128R	Redundant PWCE 128-Reader License
PWRDR256R	Redundant PWCE 256-Reader License
PWRDR512R	Redundant PWCE 512-Reader License
PWWRDRR	1 Redundant Wireless Reader License
PWDSCRDRR	1 Redundant Salto Wireless Reader License
PWBADGELR	Redundant PWCE Classic/Advice Badging License
PWSTDMERICR	Redundant 1 Mercury Standard Protocol Intelligent
PWDBUT-R	Redundant PWCE DTU License
PWVISTA1-R	1 Panel Redundant License for VISTA
PWVISTA5-R	5 Panel Redundant License for VISTA
PWVISTA10-R	10 Panel Redundant License for VISTA
PWDIMEN1-R	1 Panel Redundant License for VISTA
PWINTSTENO-R	Redundant Pro-Watch interface to Stentofon
PWINTCOMMEND-R	Redundant Pro-Watch interface to Commend Intercom System
PWNTXECCTVAD-R	Redundant PWCE AD CCTV License 2050 Megapower
PWNTXECCTVBVR-R	Redundant PWCE Burle CCTV License Allegiant Series
PWNTXECCTVPE-R	Redundant PWCE Pelco CCTV License CM9760
PWNTXECCTVVI-R	Redundant PWCE Vicon CCTV License VPS 1300
PWNT3EXECCTVINR	Redundant PWCE Integral CCTV License
PWDWFX-R	Plug-in for viewing DWFx format files (supported by AutoCAD 2008 and later) in Pro-Watch. License required per concurrent standard client license (PW42SWCL)
PWPDF427-R	Plug-in for Classic, Advanced and Airport Badging: Allows generation of PDF427 2-D barcodes. License required per concurrent badging client (PWBADGEL)

For More Information

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HIS-PRW50-04-NA(240620)DS-ZB
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THE
FUTURE
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