

System Description

The Security Master Controller communicates to Remote Input/Output and Card Reader modules via a RS-485 two wire network which provides distributed interface to the door readers, locks, and intrusion sensors. The Card Reader Modules use the industry standard Wiegand protocol to communicate between the proximity card readers and the Reader Module. Two versions of the Security controller are available, SEC-H-201 and the SEC-H-600, which has additional memory to expand the system capabilities. See the table below for the system capabilities of each Security Controller.

Product	Card Reader Inputs	Supervised Inputs	Relay Outputs	Digital Inputs
Security Controller SEC-H-201, SEC-H-600	2	6	4	3
Remote Reader Module	2	4	2	2
Remote Input/Output Module	-	8	8	2

System Capacities		
	SEC-H-201 System	SEC-H-600 System
Controller Processor	PowerPC 405EP 250 MHz processor	PowerPC 440 524 MHz processor
Controller Memory	128 MB RAM / 128 MB Flash	256 MB RAM / 128 MB Flash
Reader Modules (Maximum)	7	15 (note 1)
I/O Modules (Maximum)	8	15 (note 1)
Proximity Card Readers (Maximum)	16	32 (note 2)
Remote Inputs/Outputs (Maximum)	64/64	120/120 (note 2)
Personnel Records	2500	10,000
History Records	5000	50,000

Notes:

- 1) Max of 15 modules (combined reader and I/O) per SEC-H-600 Controller.
- 2) Up to 32 readers or 120 I/O points, depending on module combination.

SEC-H-201/SEC-H-600 Security Controller Details

The Security Controller contains the application, web interface, system database, and report logs for the associated Card Readers and I/O modules and has the flexibility and functionality listed below:

Access Control Functions

- Access Zone capability allowing you to specify multiple doors into a defined "zone".
- Card Only Access, Card plus PIN Access, and PIN Only Access allows multiple reader options.
- Control Access by Schedule & through a Graphical User Interface (GUI) provides user convenience.
- Normal / Entry Only Access options for entry flexibility.
- Anti-Passback - Timed, Soft (access granted but alarm generated), and Hard (access not allowed and alarm generated).
- Time and Attendance - None, Clock In, and Clock Out options for attendance tracking.

Alarm and I/O Functions

- Real Time Alarm Transaction Monitoring provides fast response and accurate reporting.
- Automatic Incoming Power Failure Monitoring notifies the user in the event of a power failure.
- Instant and Delay Alarm Monitoring prevents nuisance alarms.
- Programmable Alarm Point Description provides easy to understand alarm information.
- Programmable Arm / Disarm of Alarm Zones simplifies everyday use of the system.
- Programmable Output Control & Input-Output Linking allows creation of event initiated actions.
- Door Held Open / Forced Open Alarm Reporting notifies the user of unsecured access points.
- Tamper Alarm from Enclosure Opening notifies the user when a control panel has been opened.

Elevator Control

- Floor access rights via linking a card reader to the elevator floor selection panel.
- Up to 64 floors per elevator can be controlled.

Building Automation Zone Identifier

- Provides the ability to identify and label a section of the facility for integration to the Building Automation system.
- Allows energy saving applications to be integrated with the Zone and tied to Zone occupancy.

Built In Reporting Functions

- Alarm Reports
- Event Transactions Reports & Audit Log
- Database Configuration Reports & Personnel Reports
- Anti-Passback Reports
- Time Attendance Transactions and Lateness Reports

Email Functions

- Email Based on SMTP
- Email Upon Triggered Conditions – Based on Selectable Events, Devices and/or Cardholders

Remote Card Reader Module Details - SEC-H-R2R

The SEC-H-R2R Reader Modules expand the capacity of the Security Controller allowing additional proximity card readers to be used. Up to seven Card Reader Modules can be associated with a SEC-H-201 Security Master Controller providing a total access control capacity of 16 doors. Up to 15 Card Reader Modules can be associated with a SEC-H-600 Security Controller for access control capacity of 32 doors. (See Systems Capacities table). The Card Reader Module contains:

- Connections for 2 proximity card readers
- 4 Supervised Inputs
- 2 Form C Relay Outputs
- 2 Digital Inputs

Input/Output Module Details - SEC-H-RIO

The SEC-H-RIO Input/Output Modules are used in the intrusion detection system to detect contact closures and initiate alarms via the Security Controller. Up to eight Input/Output modules can be associated with a SEC-H-201 Security Master Controller providing up to 64 supervised inputs and 64 outputs. Up to 15 Input/Output Modules can be associated with a SEC-H-600 Security Controller providing up to 120 inputs and 120 outputs. (See Systems Capacities table). The Input/Output Module contains:

- 8 Supervised Inputs
- 8 Form C Relay Outputs
- 2 Digital Inputs

Power Supply Module details – NPB-PWR-UN-H

The Power Supply Module is a 90 - 230 VAC to 15 VDC device specifically designed for the WEBS-AX Security System. The Medium and Large Security Enclosures below come with the NPB-PWR-UN-H Power Supply Module included. This Module is also the main power source used to charge the backup batteries in the security panel (batteries are purchased separately).

WEBS-AX Security Enclosure Panels

Three lockable enclosure panels are available to house the controllers and are required to comply with most local code requirements. All of the enclosures are equipped with key lock and tamper switch to initiate an alarm if the panel is opened. The medium and large enclosures include the Power Supply module, which is

covered by a protective metal shield and have space capacity for one SLA (Sealed Lead Acid) battery (712NPB), which must be purchased separately. Knockouts are provided on the top, bottom and sides for external connection from any direction.

State and Local Requirements to Install Security Systems

The laws and licensing requirements to install security products vary by state. Contractors should fully understand the licensing and training requirements in their regions and comply with the requirements before they install security products of any type. Burglar and Alarm Associations exist in many states and are good sources to obtain information on these requirements. See the attached State Regulatory Authority Resource Guide which identifies associations in your state.

WEBStation-AX jar Files for Security Controllers

Although the Security Controller is configured via a browser, Honeywell partners with WEBStation-AX version 3.2 software can program additional functionality in the controller by linking to components in the Access Control network of the controller. Five additional jar files are required in WEBStation-AX version 3.2 to access the Security Controller – accessControl.jar, AccessDriver.jar, accessHelp.jar, neptune.jar and guidedTour.jar. These jar files can be downloaded from the Honeywell Buildings Forum at: [The Buildings Forum](#) > [Honeywell WEBs™](#) > [WEBs-AX Software Upgrades](#).

Future versions of WEBStation-AX will have these jar files incorporated into the software. **Extreme caution is necessary when adding functionality to the Security controller. It is possible to unintentionally alter the preprogrammed Security application and render it inoperable. Altering the Security application voids all warranties and will prevent the Honeywell TAC from supporting the installation.**

If you create problems, you can restore the controller to the factory default state using the Security Maintenance Software, however, doing so will erase all information in the controller database.

Security only contractors do not have the WEBStation-AX workbench, so they will be limited to stand alone applications using the functionality of the Security appliance via the browser. WEBs contractor partners can use the WEBStation-AX Workbench to integrate the Security controllers into the WEBs-AX building automation system via BACnet IP without the need for the jar files.

WEBs-AX Security Sign Up Requirements

The WEBs-AX Security products are sold only through Honeywell Authorized Systems Distributors that carry the WEBs product portfolio. Authorized Systems Distributors are allowed to sell the WEBs-AX Security products on an unrestricted basis. However, **all Security partners are required to have a WEBs-AX Security demonstration kit and a signed and active WEBs-AX agreement on file.** The demonstration kit allows contractors to test third party Weigand card readers to ensure compatibility and to create customized demonstrations for their sales presentations.






WEBs-AX Security Partner Sign Up Requirements











	Demonstration Kit	Annual Renewal Fee	WEBs Agreement Document Required
New or Existing WEBs Partners (ASD or Contractor)	SEC-EXIST-DEMO Base Price: \$4666.67	None. Renewal covered in existing WEBs annual renewal fee.	None. Existing WEBs Agreement will be used with no additions required.
Security Only Contractors (non WEBs partners)	SEC-NEW-DEMO Base Price: \$9333.33	Security only annual renewal Base Price: \$3333.33 - billed to ASDs in March	WEBs-AX Security Partner Agreement must be signed and submitted.







SEC-EXIST-DEMO contains: (1) Medium Enclosure, (1) SEC-H-201 Security Controller, (2) copies of SEC-H-MT-AX Maintenance Tool Software. WEBStation-AX 3.2 software with the Security jar files also has the Maintenance Tool functionality.

SEC-NEW-DEMO contains: (1) Medium Enclosure, (1) SEC-H-201 Security Controller, (6) copies of SEC-H-MT-AX Maintenance Tool Software.

Pricing

Security Controller (Standard)	Description	Base Price
SEC-H-201 	Standard Security controller. Includes connections for 2 Card Readers, 6 Supervised Inputs, 4 Form C Relay Outputs, and 3 Digital Inputs. Includes 128 MB RAM/64 MB Flash, 2 10/100 Mb Ethernet ports, (1) RS-485 serial port, (1) RS-232 serial port, and 2 communication card option slots. Contains removable screw terminal connectors, and status indication LEDs. The Security Controller is designed for DIN rail mounting. Includes WEBsAX security appliance, Web UI, Niagara Network Connectivity, BACnet Server IP Connectivity, and oBix Client/Server Connectivity.	\$3,500.00
Security Controller (Enhanced)	Description	Base Price
SEC-H-600 	Enhanced Security Controller. Includes connections for 2 Card Readers, 6 Supervised Inputs, 4 Form C Relay Outputs, and 3 Digital Inputs. Includes 256 MB RAM/128 MB Flash, 2 10/100 Mb Ethernet ports, (1) RS-485 serial port, (1) RS-232 serial port, and 2 communication card option slots. Contains removable screw terminal connectors, and status indication LEDs. The Security Controller is designed for DIN rail mounting. Includes WEBsAX security appliance, Web UI, Niagara Network Connectivity, BACnet Server IP Connectivity, and oBix Client/Server Connectivity.	\$5,700.00
2 Reader Module	Description	Base Price
SEC-H-R2R 	2 Reader Module. Includes connections for 2 proximity card readers, 4 Supervised Inputs, 2 Form C Relay Outputs, and 2 Digital Inputs. Contains removable screw terminal connectors, and status indication LEDs.	\$800.00
8 Input / 8 Output Module	Description	Base Price
SEC-H-RIO 	Security Remote Input/Output Module. Includes connections for 8 Supervised Inputs, 8 Form C Relay Outputs, and 2 Digital Inputs. Contains removable screw terminal connectors, and status indication LEDs.	\$800.00
Universal Power Supply Module	Description	Base Price
NPB-PWR-UN-H 	Universal Power Supply. 90-263 V AC/ 15 VDC Power Supply Module for Security Controller, DIN Rail Mountable. <i>The Power supply Module is included in the medium and large WEBs-AX Security enclosures.</i>	\$210.00

Proximity Card Readers	Description	Base Price
OP10HONE 	OmniProx Small Mount Reader with Honeywell Logo. Mini mullion, HID compatible reader with up to a 3" (7.62cm) read range and includes black, charcoal gray and ivory bezels. This reader features a built-in tamper and Wiegand output. Dimensions: 3.15" H x 1.57" W x 0.50" D (8.0cm H x 4.0cm W x 1.28cm D).	\$ 212.00
OP30HONE 	OmniProx Mullion Mount Reader with Honeywell Logo. Mullion, HID compatible reader with up to a 5" (12.7cm) read range and includes black, charcoal gray and ivory bezels. This reader features a built-in tamper and Wiegand output. Dimensions: 5.71" H x 1.69" W x 0.79" D (14.5cm H x 4.3cm W x 2.0cm D).	\$ 309.17
OP40HONE 	OmniProx Wall Mount Reader with Honeywell Logo. US gangbox, HID compatible reader with up to a 4" (10.16cm) read range and includes black, charcoal gray and ivory bezels. This reader features a built-in tamper and Wiegand output. Dimensions: 4.33" H x 2.95" W x 0.59" D (11.0cm H x 7.5cm W x 1.5cm D).	\$ 335.67
OP90HONE 	OmniProx Vandal Resistant Mount Reader with Honeywell Logo. Stainless steel, vandal-resistant reader with up to a 1.5" (3.81cm) read range. This reader features a built-in tamper and Wiegand output. Dimensions: 4.75" H x 3" W x 0.82" D (12.1cm H x 7.6cm W x 2.1cm D).	\$ 618.33
Key Cards	Description	Base Price
PVC-H-4 	HID PVC Prox Card (34-Bit). HID PVC proximity card sequentially numbered where encoded number equals printed number. Allows a video photo ID to be printed directly on the card surface. This card can be used with all PVC printers.	\$ 12.19
PX-4-H 	HID proximity card (34-bit) with logo and a slot hole punch on the short side. Dimensions: 2.125" H x 3.375" W x 0.070" T (5.398cm H x 8.573cm W x .178cm T).	\$ 5.65
PX-KEY-H 	HID Proximity Card Key Fob (34-Bit). HID proximity key fob (34-bit) designed to be carried on a user's key ring. Read ranges may be reduced by 50% when using the fob versus a card. Dimensions: 1.87" H x .925" W x .395" T (4.75cm H x 2.350cm W x 1cm T).	\$ 12.90
Request to Exit Sensors/Buttons	Description	Base Price
IS310BL 	Request-to-Exit Sensor, Standard Version - Black. Adjustable relay time (0.5 - 64 seconds), adjustable "tamper proof" shutters, to enable precise target area detection, Two "Form C" outputs, Swivel optics – allow for offset mounting.	\$ 136.03
IS310WH 	Request-to-Exit Sensor, Standard Version - White. Adjustable relay time (0.5 - 64 seconds), adjustable "tamper proof" shutters, to enable precise target area detection, Two "Form C" outputs, Swivel optics – allow for offset mounting.	\$ 136.03
EXB-1 	Egress Button. Exit button with a single gang stainless steel mounting plate, DPDT. Can be configured with momentary or latching contact status. Temperature range: 32° to 158° F (0° to 70° C). Dimensions: 4.5" H x 2.75" W x 2.13" D (11.43cm H x 6.99cm W x 5.40cm D).	\$ 32.75

Door Locks/Strikes	Description	Base Price
ML8011-LC-US28 	Magnetic Lock, 1,200lbs., 12 VDC - US 28 finish. UL listed magnetic door lock for a single door with 1,200lbs (544kg) holding force, operates on 12/24VDC .2A current draw and comes with a US28 (satin stainless) finish. Lock dimensions: 2.625" H x 10.5" W x 1.625" D (6.67cm H x 26.67cm W x 4.13cm D). Armature dimensions: 2.5" H x 7" W x .375" D (6.35cm H x 17.78cm W x .95cm D).	\$ 480.53
NS5100 	1300lb Electric Strike, 12/24V, Non-Handed, Includes 3 Face Plates for Most Door Types. Dual voltage electric door strike providing over 1,300 lbs. of holding force. Fail-secure/fail-safe field reversible. The NS5100 is .38A @ 12VDC or .19A @ 24VDC. Strike includes three face plates for use with hollow metal, wood or aluminum frames. Adjustable keeper and small backbox fit almost any application. Retrofit existing doors or lock replacements with included neoprene filler. Backbox: 3.375" H x 1" W x 1.345" D. Keeper pocket: 1.4375" H x .5" D x .6875" – .8125" W (adjustable).	\$ 224.37
Back Up Battery	Description	Base Price
712BNP 	12V 7AH Battery for security controller back up. Mounts in Security enclosure panel.	\$ 37.77
Medium Security Enclosure	Description	Base Price
SEC-ENC-H-1 	Medium enclosure with DIN rail, tamper switch, key lock, and capacity for user provided SLA batteries. Can enclose one Security Controller, or two Reader Modules, or one Remote I/O module. Note: Universal Power Supply is included with enclosure. Dimensions: 17" W x 15" H x 4" D	\$750.00
Large Security Enclosure	Description	Base Price
SEC-ENC-H-2 	Large enclosure with DIN rail, tamper switch, key lock, and capacity for user provided SLA batteries. Enclosure includes 2 DIN rails for additional module expansion. Can enclose one Security Controller, or up to four Reader Modules, or two I/O modules. Note: Universal Power Supply is included with enclosure. Dimensions: 17" W x 22" H x 4" D	\$950.00
Small Security Enclosure	Description	Base Price
SEC-ENC-H-3 	Small enclosure with DIN rail, tamper switch and key lock. Single 2 reader module only option available for this enclosure. Dimensions: 6" W x 9" H x 4" D	\$450.00

Documentation

Literature #	Description	Availability
74-4063	SEC-H-201/600 Spec Data Sheet	Download at http://customer.honeywell.com or print at http://literature.honeywell.com
95-7759	SEC-H-600 Installation Instructions	Download at http://customer.honeywell.com or print at http://literature.honeywell.com
95-7750	SEC-H-201 Installation Instructions	Download at http://customer.honeywell.com or print at http://literature.honeywell.com
95-7749	SEC-H-R2R Installation Instructions	Download at http://customer.honeywell.com or print at http://literature.honeywell.com
74-4060	SEC-H-RIO Installation Instructions	Download at http://customer.honeywell.com or print at http://literature.honeywell.com
95-7747	SEC-ENC-H-1 SEC-ENC-H-2 Installation Instructions	Download at http://customer.honeywell.com or print at http://literature.honeywell.com
95-7748	SEC-ENC-H-3 Installation Instructions	Download at http://customer.honeywell.com or print at http://literature.honeywell.com
74-4062	WEBs-AX Security Controller User's Guide	Download at http://customer.honeywell.com or print at http://literature.honeywell.com
74-4061	WEBs-AX Security Access Control Guidebook	Download at http://customer.honeywell.com or print at http://literature.honeywell.com
7-501040	Proximity Card Readers Data Sheet	Download at: http://www.honeywellaccess.com/products/readers/proxi/18594.html
K5336	Proximity Card Readers Installation Instructions	Download at: http://www.honeywellaccess.com/products/readers/proxi/18594.html
PL06020	IS310 Request to Exit Sensor Data Sheet	Download at: http://www.security.honeywell.com/hsce/products/sensor/mo/ac/

Sales Literature

Literature #	Description	Availability
63-9645	WEBs-AX Security Brochure	Download at http://customer.honeywell.com or print at http://literature.honeywell.com
63-9358	WEBs-AX Brochure	Download at http://customer.honeywell.com or print at http://literature.honeywell.com
Flyer	WEBs-AX Flyer	Download at http://customer.honeywell.com
63-9643	WEBs-AX Print on Demand Postcard	Print at http://literature.honeywell.com

Training

Certification training is not required for the WEBs-AX Security Controller. *It is highly recommended that all users read the forms below prior to estimating and installing a system. Knowledge of power requirements and wiring for the readers and door locks is crucial to ensure an accurate and complete estimate. It is also critical to understand the type of door locks required for each installation. Almost every installation will have different lock requirements.*

- 74-4061 WEBSAX Security Access Control Guidebook
- 74-4062 WEBSAX Security Access Controller User's Guide
- The installation instructions for the Security Controllers, Remote Card Readers, Enclosures, and information on peripheral products.

Video training modules will be created covering controller set up and usage. When complete, they will be posted on <http://customer.honeywell.com/Honeywell/UI/Pages/Training/AdobeTrainingSite.aspx>.

Availability and Ordering Information

These products are available for immediate ordering.

- Existing ACS and ACI contractors that are not currently WEBs partners must sign Exhibit B of the contractor business agreement and add the Security Maintenance tool OS number to the software table in Exhibit A of the ACI/ACS business agreement. Submit completed form to Susan Gornick at susan.gornick@honeywell.com.
- Non WEBs partners must complete and sign the WEBS-AX Security Agreement. Submit completed form to Susan Gornick at susan.gornick@honeywell.com.
- Complete and submit the attached WEBS-AX Security Identification form. Submit completed form to Sue Szeszol (Redensek) at sue.szeszol@honeywell.com
- All partners require the appropriate demonstration kit with their first order.

Orders for all WEBS products should be sent to Sue Szeszol (Redensek) at sue.szeszol@honeywell.com, phone: 847-797-4390, fax: 866-222-3439.

Questions

Refer to the Frequently Asked Questions below. If you have additional questions, please contact your Honeywell sales representatives.

Frequently Asked Questions

1. Where does the user database reside?

The database for user information and reports resides in the security controller. If multiple controllers are used in a building, each controller must contain the database to be used for that controller.

2. What if I want to control more doors than a security controller can handle?

Use multiple security controllers in the system. Each controller will need to contain the database to be used for that controller.

3. What is the Niagara Compatibility Statement (NiCS) of the WEBS-AX Security controllers?

The WEBS-AX Security Controllers use an open NiCS and can be integrated with Niagara-AX brands using any Niagara-AX programming tool. See below for details. "*" = Open.

accept.station.in = "*", accept.station.out = "**", accept.wb.in = "*", accept.wb.out = "**"

4. Does the WEBS-AX Security Controller integrate video?

No. At this point in time, it does not include video capability.

5. Can you connect to an external alarm service for 24 hour monitoring?

Yes. You can use an alarm relay output to connect a local alarm service. Coordinate the connection details with the specific alarm service that your customer is using.

6. How do you integrate the Security Controllers to other WEBS products?

Point data is shared between Security Controllers and other Niagara-AX controllers using BACnet over IP or the Niagara-AX Fox protocol. BACnet over IP is the recommended approach because it provides pre engineered BACnet points that can be discovered via a standard network discovery. See the application manual for enabling the BACnet server in the Security controller.

7. Is there a separate programming tool required to configure the Security controller?

No. The configuration tool for the security controllers is embedded in the Security Master Controller. All controller functionality is configured from a browser.

8. Can I change the Security Application in the controllers using the Workbench tool?

This is not recommended. The Security Application resides on the Niagara network in the security controller. If the WEBStation-AX workbench has the correct jar files for the security controller, it can access the application and you can link to objects in the application. However, if the security application is changed, it voids all warranties and will prevent the Honeywell TAC from providing support. Any changes would need to be set back to the factory default before support can be provided.

9. What is the Security maintenance tool used for?

The maintenance tool is designed for field technicians to upgrade the Security Application when new security applications are released. It has no programming or configuration capability.

10. What protocol is used on the RS-485 network of the Security system?

The RS-485 network is a proprietary protocol.

11. Can the NPB network cards be used in the Security Controllers to expand the capabilities to building automation?

Not at this point in time. The Security Controllers currently do not support licensing for the NPB network cards or third party drivers.

12. Is Niagara-AX certification required in order to sell the Security products?

No. The controllers have a fixed function application, so no special training is required to sell them.

13. Do security contractors need to be licensed?

Yes. Requirements for security licensing differ by state and locale. Please check the requirements in your locale before installing any security or access control system. Most states have Security Contractor associations and these are good places to obtain information.

14. Why is there a requirement to purchase a security demo kit?

Demonstration kits provide the ability for contractor to customize demonstrations for potential customers. In addition, they are used to test applications and integration of Wiegand readers.

15. What is the annual renewal fee?

The annual renewal fee for the WEBS-AX Security demonstration kit is waived for existing WEBS partners. All demonstration kits licenses expire on the subsequent March 31. For non WEBS partners and security only contractors, the annual license renewal for the Security demonstration kit has a base price of \$3333.33.