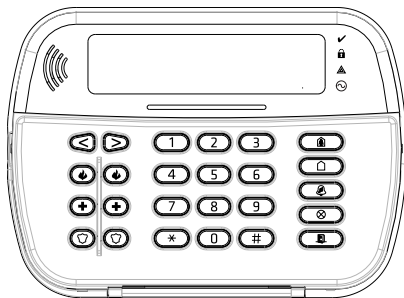


# HS2LED/HS2ICON(P)(RF)X/HS2LCD(RF)(P)X V1.1

## Installation Instructions/Instructions d'installation/Instrucciones de instalación/Instruções de instalação English, Français, Español, Português



**WARNING:** Please refer to the System Installation Manual for information on limitations regarding product use and function and information on the limitations as to liability of the manufacturer.

**NOTE:** These instructions shall be used in conjunction with the system Installation Manual of the Control Panel with which this equipment is intended to be used.

**ATTENTION:** Ce manuel contient des informations sur les restrictions concernant le fonctionnement et l'utilisation du produit et des informations sur les restrictions en ce qui concerne la responsabilité du fabricant. La totalité du manuel doit être lu attentivement.

**NOTE:** Ce manuel doit être utilisé en conjonction avec le Manuel d'installation du Panneau de contrôle.

**ATENCIÓN:** Consulte el Manual de instalación del sistema para obtener información sobre las limitaciones del uso y funciones del producto, así como las limitaciones de la responsabilidad del fabricante.

**NOTA:** Estas instrucciones deberán utilizarse conjuntamente con el Manual de instalación del sistema del Panel de control con el que se vaya a utilizar este equipo.

**AVISO:** Consulte o Manual de instalação do sistema para obter informações acerca das limitações relativas à utilização do produto e funções e informações acerca das limitações relativas à imputação de responsabilidades ao fabricante.

**NOTA:** Estas instruções devem ser utilizadas em conjunto com o Manual de instalação do sistema do painel de controlo com o qual este equipamento se destina a ser utilizado.

PowerSeries  
**neo**

**DSC**

From Tyco Security Products



29009076R001

## Introduction

The HS2LED/HS2ICN(P)(RF)/x/HS2LCD(RF)(P)x keypads are compatible with the PowerSeries Neo HS2016/32/64, HS2014-4\* and HS2128 panels. The RF keypads combine a wireless transmitter with the respective HS2 keypad.  
\*Model not UL/ULC listed.

## Specifications

- Temperature range: -10°C to +55°C (14°F to 131°F); UL/ULC: 0°C to +49°C (32°F to 120°F)
- Humidity (MAX): 93%R.H. non-condensing
- Plastic enclosure protection degree: IP30, IK04
- Voltage rating: 13.8Vdc nominal (power provided by the compatible control panel)
- Connects to control panel Corbus via 4 wires
- 1 configurable zone input or PGM output\*
- HS2LED/ HS2ICN (P) /HS2LCD (P) /HS2ICNRF (P) /HS2LCDRF(P) Current draw: .5mA(min)/105mA(max)
- Wall-mount tamper
- 5 programmable function keys
- Ready (Green LED), Armed (Red LED), Trouble (Yellow LED), AC (Green LED)
- Dimensions (L x W x D): 168mm x 122mm x 20 mm
- Weight: 260g
- Low temperature sensor
- Frequency: 433 MHz (HS2ICNRF4/HS2LCDRF4)
- 868 MHz (HS2ICNRF8/HS2LCDRF8)
- 912-919MHz (HS2ICNRF9/HS2LCDRF9)
- Up to 128 wireless zones

Zone not to be programmed as Fire type or 24h type.

NOTE: Keypads contain no serviceable parts.

NOTE: Only models operating in band 912-919MHz are UL/ULC listed.

## Unpack

The keypad package includes the following:

**HS2LED/ICN(RF)/LCD(RF) HS2ICN(RF)/LCD(RF)P**

1 keypad	1 keypad
4 mounting screws	4 mounting screws
2 end-of-line resistors	2 end-of-line resistors
Keypad inner door labels	Keypad inner door labels
1 tamper switch	1 tamper switch
Installation Instructions	Installation Instructions
	Mini Proximity (prox) tag (MPT)

**Table 1: Compatible Devices**

Wireless PG smoke detector	PGx926UL
Wireless PG smoke and heat detector	PGx916UL
Wireless PG CO detector	PGx913
Wireless PG PIR motion detector	PGx904(P)UL
Wireless PG PIR + camera motion detector	PGx934(P)UL
Wireless PG curtain motion detector	PGx924UL
Wireless PG dual tech motion detector	PGx984(P)
Wireless PG mirror motion detector	PGx974(P)UL
Wireless PG outdoor motion detector	PGx994UL
Wireless PG glass break detector	PGx912
Wireless PG shock detector	PGx935UL
Wireless PG flood detector	PGx985UL
Wireless PG temperature detector (indoor)	PGx905UL
Outdoor temperature probe (requires PGx905)	PGTEMP-PROBE
Wireless PG key	PGx939UL
Wireless PG panic key	PGx929UL
Wireless PG ganic key	PGx938UL
Wireless PG 2-button key	PGx949UL
Wireless PG indoor siren	PGx901UL
Wireless PG outdoor siren	PGx911UL
Wireless PG repeater	PGx920UL
Wireless PG door/window contact	PGx975UL
Wireless PG door/window contact w/AUX	PGx945UL

NOTE: In this chart, x in the model number represents the operating frequency of the device as follows: 9 (912-919 MHz), 8 (868MHz), 4 (433MHz).

NOTE: Only models operating in the band 912-919 MHz are UL/ULC or cUL listed where indicated. Only UL approved devices are to be used with UL/ULC listed systems.

## Mount the Keypad

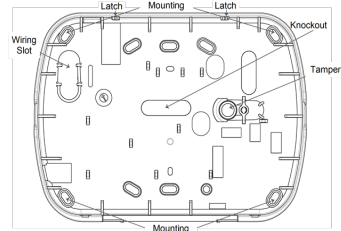
Mount the keypad where it is accessible from designated points of entry and exit. Once a dry and secure location has been selected, perform the following steps to mount the keypad.

### Disassemble Keypad

Insert the tip of a flat-head screwdriver into the slots at the bottom left and right of the keypad.  
Gently pry open the faceplate. This will remove it and allow access for mounting.



## Mount and Wire Keypad



1. Secure keypad to wall using mounting holes. Use all four screws provided unless mounting on a single gang box. Use the plastic anchors supplied if the unit is to be mounted on drywall.
2. If using the keypad tamper, secure the tamper plate to the wall with a screw.

NOTE: For UL/ULC listed commercial burglary installations, the use of the keypad tamper is mandatory.

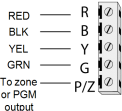
3. Run wire through wiring slot or knockouts. Connect Corbus and PGM/Zone wiring to keypad. Place tamper switch into tamper hole on backplate.
4. Place keypad into backplate, ensuring the wire is pushed back into the wall as much as possible. Route the wire inside the keypad, ensuring high components are avoided. Snap the front assembly closed, ensuring that there is no pressure to the keypad from the wire below.

NOTE: If any tension is found between the front keypad assembly and the wiring, open the keypad, reroute the wire and close again. Repeat these steps until the keypad is closed properly.

## Wiring

1. Before wiring the unit, ensure that all power (AC transformer and battery) is disconnected from the control panel.
2. Connect the four Corbus wires from the control panel (red, black, yellow and green) to the keypad terminals. Refer to the diagram: If programmed as an input, a device - such as a door contact - may be connected to the 'P/Z' terminal of the keypad. This eliminates the need to run wires back to the control panel for the device. To connect the zone, run one wire from the device to the 'P/Z' terminal and the other wire from the device

HS2LED/HS2ICN(RF)/  
HS2LCD(RF)



to the B (black) terminal. For powered devices, run the red wire to the R (positive) terminal and the black wire to the B (negative) terminal. When using end of line supervision, connect the zone according to one of the configurations described in the PowerSeries Neo Reference manual.

NOTE: For UL/ULC installations, the zone input is a supervised type (SEOL/DEOL). The supervision resistor is 5600Ω. If no EOL supervision is used, there is a three foot maximum distance required for the connected device. Use only in conjunction with UL/ULC listed devices.

NOTE: This initiating device connected to this input contact is not to be used for medical or fire applications.

3. If the 'P/Z' terminal is programmed as an output, a small relay (such as DSC model RM-1 or RM-2) or buzzer or other DC operated device may be connected between the positive supply voltage and the 'P/Z' terminal (max load is 50mA).

NOTE: For UL/ULC-listed installations, use UL/ULC listed devices.

## Apply Power

Once all wiring is complete, and the equipment is secured to the building structure with at least two screws, apply power to the control panel:

1. Connect the battery leads to the battery.
2. Connect the AC transformer.

For more information on control panel power specifications, see the PowerSeries Neo Reference manual.

## Program the Keypad

1. Press [\*][8][Installer Code].
2. Use the [<|>] keys to navigate through the menus or jump directly to a specific section by entering the section number.

Programming consists of toggling on and off options in each section or by populating data fields. Toggle options are enabled or disabled by pressing the corresponding number on the keypad. For example, to enable toggle options 1 and 4, press the [1] and [4] keys. All enabled options are displayed (see the following diagram).

1. To input data, use the [<|>] keys to select a character then press the keypad button for the number/letter.
2. Using the [<|>] keys, scroll to the next character and repeat the procedure. For information on entering HEX data, refer to the PowerSeries Neo Reference manual.

## Language Programming

Enter [000][000]. Enter the two-digit number corresponding to the language desired:

**Table 2: Languages**

01 = English (default)	10 = German	20 = Romanian
02 = Spanish	11 = Swedish	21 = Russian
03 = Portuguese	12 = Norwegian	22 = Bulgarian
04 = French	13 = Danish	23 = Latvian
05 = Italian	14 = Hebrew	24 = Lithuanian
06 = Dutch	15 = Greek	25 = Ukrainian
07 = Polish	16 = Turkish	26 = Slovak
08 = Czech	17 = FFU	27 = Serbian
09 = Finnish	18 = Croatian	28 = Estonian
	19 = Hungarian	29 = Slovenian

## Enroll the Keypad

Keypads can be enrolled automatically or manually. In either case, the serial number of the device is used as an identifier.

NOTE: If there is no keypad enrolled on the system, once you power up, the keypad will display the message: Press any key to enroll. Other keypads can then be enrolled from the first keypad. Use one of the following enrollment options:

### [902][000] Auto Enroll

When this mode is selected, the total number of keypads currently enrolled is displayed on the keypad.

1. Enter [902][000] to begin the auto-enrollment of new keypads. As each device is enrolled, the keypad displays the model type, serial number and slot assignment. Keypads are assigned to the next available slot.

### [902][001] Manual Enroll

To manually enroll individual keypads:

1. Enter [902][001] or use the [<|>] keys and press [\*].
2. When prompted, enter the serial number of the keypad found on the back of the device.
3. An error tone is sounded if an invalid serial number is received. Once enrolled, the device model, serial number and slot assignment are displayed. Keypads are enrolled into the next available slot for the device. The slot assignment can be changed using the [<|>] keys.
4. To cancel the enrollment of a module, press [H].

NOTE: Once the maximum number of devices have been enrolled, an error tone sounds and a warning message is displayed.

## [902][002] – Module Slot Assignment (LED, LCD, ICON)

This section is used to change the slot number in which a module is enrolled. To change the slot number:

1. Enter [902][002] or use the [<|>] keys and press [\*].
2. Enter the serial number of the module.
3. When prompted, enter the new two-digit slot number. The previous slot assignment is replaced with the new one. An error tone sounds if an invalid slot number is entered.

## [902][003] – Module Slot Assignment (LCD Only)

Similarly to [002], this section is also used to change the slot number of a module. With this option, however, the serial number is not required. To change the slot number:

1. Enter [902][003] or use the [<|>] keys and press [\*].
2. Use the [<|>] keys to locate the module then press [\*] to select.
3. Enter the new two-digit slot number. The previous slot assignment is replaced with the new one. An error tone sounds if an invalid slot number is entered.

## [902][101] Unenroll Keypads

1. Enter [902][101] or use the [<|>] keys and press [\*].
2. Use the [<|>] keys to scroll to the specific keypad to delete.
3. Press [\*] to select the module and when prompted, press [\*] again to delete it.

## [903][101] Confirm Keypad

To confirm the enrollment of individual keypads and to locate them physically:

1. Enter [903][101] or use the [<|>] and press [\*].
2. Use the [<|>] keys to scroll to the applicable keypad. The module's serial number and slot number are displayed on the keypad and the status LEDs on the device flash.
3. To confirm the keypad, press [\*]. If communication with a module is lost at the time of confirmation, a warning message is displayed for 1 second before exiting the section.

## Assign a Partition to the Keypad

The keypad must be assigned to a partition if supervision or keypad zones are required. Keypad assignments and keypad output programming must be done at each keypad individually.

At each keypad installed on the system:

1. Press [\*][8][Installer Code].
2. Enter [861]-[876] for Keypad Programming and Keypad Partition Mask, corresponding to keypads 1-16.
3. Press [\*] for partition assignment.
4. Enter 01 to 08 for partition assignment or use the [<|>] keys to scroll to the specific partition if partitioning is not used, enter [01]. For Global keypads, enter [00].
5. Press [\*] twice to exit programming.
6. Continue this procedure for each keypad until all have been assigned to the correct partition.

## Program Labels (LCD keypads)

1. Press [\*][8][Installer Code].
2. Press [\*] and use the [<|>] keys to scroll to Zone Labels and press [\*] again. The first zone is displayed. Alternatively, enter, [000][001].
3. Use the [<|>] keys to scroll to the zone label to be programmed and press [\*] or enter the zone number (e.g., 001, for zone label 1).
4. Use the [<|>] keys to scroll to the desired character's location, using the [<|>] keys.
5. Enter the number of the corresponding character group until the desired character is displayed (see the following table). Example, press the "2" key three times to enter the letter "F". Press the "2" key four times to enter the number "2". Press [\*], then scroll to "Save". Press [\*] again to save the label. To delete a character, use the [<|>] keys to move the cursor under the character, then press [0]. If any key other than [<|>] is pressed before [0], the cursor moves one space to the right and deletes that character.

[1] - A, B, C, 1	[5] - M, N, O, 5	[9] - Y, Z, 9, 0
[2] - D, E, F, 2	[6] - P, Q, R, 6	[0] - Space
[3] - G, H, I, 3	[7] - S, T, U, 7	[*] - Select
[4] - J, K, L, 4	[8] - V, W, X, 8	[#] - Escape

CHANGE CASE – Will toggle the next letter entries between upper case (A, B, C...) and lower case letters (a, b, c...).

ASCII ENTRY – Used to enter uncommon characters. Valid entries range from 000 to 255. Use the [<|>] keys to scroll through the characters or enter a 3-digit number from 000-255. Press [\*] to enter the character into the label.

CLEAR TO END – Clears the display from the character where the cursor was located to the end of the display.

CLEAR DISPLAY – Clears the entire label.

Continue from Step 2, until all labels are programmed.

## Label Library

The Label Library is a database of words commonly used when programming labels. Individual words can be combined as needed (e.g., Front + Door). Each line of the display supports a maximum of 14 characters. If a word will not fit on a line, scroll right until the cursor appears at the first character of the second line and then add the word.

To program a custom label using the Label Library:

1. Press [\*][8][Installer Code][000][001].
2. Enter [001] (to program the label for zone 01), or use the [<|>] keys to scroll to the Zone Labels and then press [\*]. The current label name is displayed for that zone.
3. Press [\*] to open the menu.
4. Press [\*] again to select the "Word Entry" option.
5. Enter the 3-digit number corresponding to a word (see Words Library) or use the [<|>] keys to view words in the library.
6. Press [\*] to select the word.
7. To add another word, repeat the previous procedures from step 3.
8. To add a space, press the right scroll key >].
9. To clear characters, select "Clear to End" or "Clear Display" from the menu.
10. To save the current label and exit, press [#].

## Broadcast LCD Labels

If more than one LCD keypad is present on the system, labels programmed on one keypad will be broadcast to all other LCD keypads, after the change is confirmed.

## Change Brightness/Contrast/Buzzer

### LCD Keypads

1. Press [\*][6][Master Code].

2. Use the [<|>] keys to scroll to either Bright Control, Contrast Control, or Buzzer Control.
3. Press [\*] to select one of the following settings:
  - Brightness/LED Bar Control: 15 backlighting levels available.
  - Contrast Control: 15 display contrast levels available.
  - Buzzer Control: 15 buzzer control levels available.
4. Use the [<|>] keys to scroll to the desired setting.

## Keypad Programming

1. Press [\*][8][Installer Code].
2. Select one of the programming options identified in the following.

### [860] Keypad Slot Number

Not for programming; the two-digit slot number is displayed for informational purposes only.

### [861]-[876] Keypad Programming Sections

#### [000] Address of Partition

Default: 01

A 2-digit entry is required to assign the keypad to a partition. Valid entries are 00-32.

NOTE: LED and ICON keypads must not be assigned as global keypads.






#### [001]-[005] Keypad Function Key Programming

To program a function key:

Press [\*][8][Installer Code].

1. Enter [861]-[876] for keypad programming.
2. Enter [001]-[005] for function keys 1-5 or use the [<|>] keys and press [\*].
3. Enter a 2-digit number to assign a function key operation - [00]-[68]. See the following table.
4. Repeat from step 3 until all function keys are programmed.
5. Press [#] twice to exit Installer Programming.

Table 3: Function Key Assignment

	Function Key	Button	Valid Range	Default	Function	
[001]	Key 1		00-68	03	Stay Arm	<input type="text"/>
[002]	Key 2		00-68	04	Away Arm	<input type="text"/>
[003]	Key 3		00-68	06	Chime ON/OFF	<input type="text"/>
[004]	Key 4		00-68	22	Command Output 2	<input type="text"/>
[005]	Key 5		00-68	16	Quick Exit	<input type="text"/>

## Keypad Function Keys

Refer to your system installation manual for a complete list of available function key options.

[00] - Null	[13] - Global Away Arm	[31] - Local PGM Activate
[02] - Instant Stay Arm	[14] - Global Disarming	[32] - Bypass Mode
[03] - Stay Arm	[16] - [*][0] Quick Exit	[33] - Bypass Recall
[04] - Away Arm	[17] - Arm Interior	[34] - User Programming
[05] - [*][9] No-Entry Arm	[21] - [*][7][1] Command Output 1	[35] - User Functions
[06] - [*][4] Chime ON/OFF	[22] - [*][7][2] Command Output 2	[37] - Time & Date Program
[07] - [*][6][---][4] System Test	[23] - [*][7][3] Command Output 3	[39] - Trouble Display
[09] - Night Arm	[24] - [*][7][4] Command Output 4	[40] - Alarm Memory
[12] - Global Stay Arm	[29] - Bypass Group Recall	[61]-[68] - Partition Select 1-8

## [011] Keypad Input/Output Programming

Zone / PGM Number Default 000

## [012] Local PGM Output Pulse Activation Time

Minutes (00-99)  Seconds (00-99)

## [021] First Keypad Options

Default	Opt. ON	OFF
ON <input type="checkbox"/>	1 Fire Key Enabled	Fire Key Disabled
ON <input type="checkbox"/>	2 Medical Key Enabled	Medical Key Disabled
ON <input type="checkbox"/>	3 Panic Key Enabled	Panic Key Disabled
ON <input type="checkbox"/>	4 Display Access Code When Programming	Display Xs When Programming Access Codes

NOTE: For EN50131-1/EN50131-3 compliant systems, section [021], options 1 and 2 shall be OFF.

## [022] Second Keypad Options

Default	Opt. ON	OFF
ON <input type="checkbox"/>	1 Local Clock Display ON	Local Clock Display OFF
OFF <input type="checkbox"/>	2 Local Clock Displays 24-hr	Clock Displays AM/PM
ON <input type="checkbox"/>	3 Auto Alarm Mem Scroll ON	Auto Alarm Mem Scroll OFF
ON <input type="checkbox"/>	4 For Future Use	For Future Use
OFF <input type="checkbox"/>	5 Power LED Enabled	Power LED Disabled
ON <input type="checkbox"/>	6 Power LED AC Present ON	Power LED AC Present OFF
ON <input type="checkbox"/>	7 Alarms Displayed While Armed	Alarms Not Displayed While Armed
OFF <input type="checkbox"/>	8 Auto-Scroll Open Zones ON	Auto-Scroll Open Zones OFF

## [023] Third Keypad Options

Default	Opt. ON	OFF
OFF <input type="checkbox"/>	1 Armed LED Power Save	Armed LED Off in Sleep Mode
ON <input type="checkbox"/>	2 Keypad Status Shows Stay Arm	Keypad Status Shows Stay/Away Arm
OFF <input type="checkbox"/>	3 5th Terminal is PGM Output	5th Terminal is Zone Input
OFF <input type="checkbox"/>	7 Local Display of Temperature	No Local Display of Temperature
OFF <input type="checkbox"/>	8 Low Temperature Warning Enabled	Low Temperature Warning Disabled

## [030] Downloaded LCD Message

NOTE: Clock display (Section [022], Option 1) must be enabled.

## [031] Downloaded LCD Message Duration

Default: 000  (Valid entries are 000-255, 000=Unlimited Msg Display)  
This number represents the number of times the downloaded message must be cleared before it is permanently removed. This message can be cleared by pressing any key.

## [041] Indoor Temperature Zone Assignment

Default: 000  (Valid entries are 000-128)

## [042] Outdoor Temperature Zone Assignment

Default: 000  (Valid entries are 000-128)

## [101]-[228] Door Chime for Zones

Default: 01

The keypad can be programmed to make up to four different chime sounds for individual zones. (e.g., for Zone 1, enter section [101], for Zone 2 enter section [102]).

01 6 beeps	04 Alarm Tone (4s duration)
02 Bing bing tone	05 Zone Name
03 Ding dong tone	

## [991] Reset Keypad Programming to Factory Defaults

1. Press [\*][8][Installer Code].
2. Enter [991].
3. Use the [<|>] keys to scroll to the applicable keypad.
4. Press [\*] to select the keypad.
5. Re-enter [Installer Code].
6. Press [\*] to reset the selected keypad to factory defaults

## Keypad Symbols

Table 4: Keypad Display Symbols

1	Memory – Indicates that alarms are in memory.	10 Chime – Turns on when Door Chime is enabled and off when Door Chime is disabled.
2	Fire – Indicates that fire alarms are in memory.	11 Away – Indicates that the panel is armed in away mode.
3,4,5	Clock Digits – These digits indicate the hour and minutes when the local clock is active, and also identify the zone when the OPEN or ALARM icons are active. These digits scroll one zone per second from the lowest zone number to the highest when scrolling through zones.	12 Stay – Indicates that the panel is armed in stay mode.
		13 Night – Indicates that the panel is armed in night mode.
6	1 to 8 – These numbers display toggles or digits in binary while they are needed.	14 Ready Light (green) – If the Ready light is on, the system is ready for arming.
7	Bypass – Indicates that there are zones automatically or manually bypassed.	15 Armed Light (red) – If the Armed light is on, the system has been armed successfully.
8	Open – When zones are opened, this icon will turn on and the open zones are displayed.	16 System Trouble – Indicates that a system trouble is active.
9	Program – If the system is in Installer's or User's Programming, or the keypad is busy, this icon flashes. If an access code is required while accessing star menus, this LED is on steadily to indicate that the code is required.	17 AC – Indicates that AC is present at the main panel.

## Proximity (Prox) Tags Support (HS2ICNP/HS2ICNRFP/HS2LCDP)

The prox tag can perform any keypad function that would normally require a user access code. Present the tag to the tag reader (Ⓢ) or to the left of the keypad LCD.

### Assign Proximity Tags

Using an LCD keypad:

1. Press [\*][5][Master/Supervisor Code].
2. Enter a 2-digit user code.
3. Press 2.
4. Pass the enrolled tag near the tag reader on the keypad.

### Delete Proximity Tags

To delete a prox tag, select the user as outlined previously. Swipe the associated prox tag. The alarm system recognizes the tag. Press [\*] to delete when prompted.

### LED Bar

On the HS2ICNP/HS2ICNRFP/HS2LCDP keypads, a blue LED bar indicates that a prox tag is approaching.

- The LED bar flashes three times when a valid prox tag is being read by the keypad.
- If the prox tag is invalid, the LED bar stays on steadily and the keypad sounds an error tone.
- The brightness of the LED bar is adjustable from the [\*][6] menu. When the backlight brightness is modified, the LED bar brightness is changed accordingly.

### Downloading

The HS2LCDRF/HS2ICNRF products can be programmed over DLS V. This auto-detects the keypad type and downloads programming accordingly.

## Wireless Device Setup and Programming (HS2ICNRF(P)x/HS2LCDRF(P)x)

This section describes how to enroll and program wireless devices such as contacts, motion sensors and sirens on the alarm panel.

### [804][000] Enroll Wireless Devices

1. Once the HSM2HOST is installed and enrolled on the alarm panel wireless devices can be enrolled using the following method: Enter Installer Programming section [804][000];
  2. When prompted, either activate the device (see device installation sheet) to enroll immediately or enter a device ID number. Do the latter to pre-enroll devices then enroll them later at the customer site.
- The alarm panel determines the type of device being enrolled and presents the appropriate programming options.

**Table 5: Wireless Device Options**

Device Type	Programming Options
Zone	(01) Zone type (02) Partition assignment (03) Zone label
Wireless key	(01) Partition assignment (02) User label
Siren	(01) Partition assignment (02) Siren label
Repeater	(01) Repeater label

3. Use the scroll keys or type in the corresponding number to select an option.

4. Scroll through the available selections, key in a number or enter text as appropriate.
5. Press [\*] to accept and move to the next option.
6. Once all options are configured, the system prompts to enroll the next device.
7. Repeat the process described above until all wireless devices are enrolled.

NOTE: The configuration options listed above can be modified using [804][911] Modify Device.

## [804][001]-[716] Wireless Device Configuration

To configure wireless devices:

1. Enter Installer Programming section [804] then select one of the following sub-sections:

**Table 6: Wireless Zone Sub-Sections**

Sub-Section	Description
001-128	Configure wireless zones
551-556	Configure wireless sirens
601-632	Configure wireless keys
701-716	Configure wireless keypads

2. Select a device to configure using the scroll keys or go directly to a specific device by entering a hotkey.
3. Use the scroll buttons or enter a hot key to select a configuration option for the device. See device sheets for details.
4. Press [\*] to accept and move to the next option.
5. Once all options are configured, the system returns to the base configuration menu. Repeat the process described above to configure other wireless devices.

### [804][801] RF Jam Detect

RF jam detection (continuous interfering transmissions on the radio network) can be turned on or off. When on, RF jamming is logged and reported.

To configure RF jamming:

1. Enter Installer Programming section [804][801].
2. Select one of the following options by scrolling or entering the hotkey:

**Table 7: Jam Detect Options**

ID	Enabled/Disabled	Jamming detection and reporting is enabled/disabled Note: Must be Enabled for UL/ULC listed installations.
01	UL 20/20-USA	Continuous RF jamming for 20 seconds
02	EN 30/60-Europe	30 seconds of accumulated jamming within 60 seconds
03	Class 6 30/60-British	As EN (30/60) but reported only if the jamming duration exceeds 5 minutes

3. Press [\*] to accept the selection.
4. Press [#] to exit the section.

### [804][802] Wireless Supervision Window

This option is used to program the length of time a wireless device can be absent from the system before a fault is generated.

NOTE: For EN installations, 1 hour or 2 hours must be selected.

When option 06 is used, which configures the system to generate fault conditions after a device has been detected as absent for 24 hours, smoke detectors generate a fault condition after a maximum of 18 hours when the 200s supervision toggle option is disabled.

To program the Wireless Supervisory Window:

1. Enter Installer Programming section [804][802].
2. Select one of the following options by scrolling or entering the hotkey

**Table 8: Wireless Supervisory Window Options**

00	Enabled/Disabled
01	After 1 Hour
02	After 2 Hour
03	After 4 Hour
04	After 8 Hour
05	After 12 Hour
06	After 24 Hour

3. Press [\*] to accept the selection.

4. Press [#] to exit the section.

NOTE: For UL Residential Burglary (UL1023), Home Health Care (UL1637), ULC Residential Burglary (ULC/ORD-C1023) installations, the maximum Supervision window shall be set to 24 hours.

For UL Residential Fire (UL985) installations, the maximum supervision window is set to 200s.

For UL Commercial Burglary (UL1610/UL365) and ULC Residential Fire (ULC-S545), the maximum supervision window shall be set to 4 hours.

## [804][810] Wireless Option 1

To program wireless options:

1. Enter Installer Programming section [804][810].

2. Select one of the following options by scrolling or entering the hotkey.

**Table 9: Wireless Options**

01	RF Delinquency	On: the system cannot be armed if a wireless supervisory trouble exists. An RF delinquency trouble is generated. Off: wireless supervisory troubles do not prevent arming.
02	Wireless Supervisory/ RF Jam Alarm	On: if a supervisory or jamming trouble occurs during Away arming, the siren activates and the event is logged and reported. Off: supervisory or RF jam troubles during Away arming do not activate the siren or get logged and reported.
03	Module Tamper	On: module tampers are logged and reported. Off: module tampers are not logged or reported.
04	Fire Supervision	On: fire devices are supervised every 200 seconds. If the device fails to report within this window, a supervision trouble is generated. Off: fire devices follow the supervision window programmed in section 802, up to a maximum of 18 hours. The supervisory window can be programmed with a higher value, but detectors still go into fault after 18 hours.

3. Press [\*] to accept the selection and [#] to exit.

## [804][841] Visual Verification Programming

To program wireless options:

1. Enter Installer Programming section [804][841].

2. Select one of the following options by scrolling or entering the hotkey

**Table 10: Visual Verification Sub-Sections**

001	Visual Verification	On: Alarms trigger image capture from PIR Cameras Off: Alarms do not trigger image capture from PIR Cameras
002	View Time Window	01 Alarm + 5 Minutes 02 Alarm + 15 minutes 03 Alarm + 1 Hour
003	View Other Alarms	01 Fire key enabled/disabled 02 Duress key enabled/disabled 03 Medical key enabled/disabled 04 Panic key enabled/disabled

## [804][901]-[905] Delete Wireless Devices

To delete wireless devices:

1. Enter Installer Programming section [804] then select one of the following sub-sections:

**Table 11: Module Label Sub-Sections**

Sub-Section	Description
901	Delete wireless zone devices
902	Delete wireless key
903	Delete sirens
904	Delete repeaters
905	Delete keypads

2. Select a device to delete using the scroll keys or go directly to a specific device by entering a hotkey.

3. Press [\*] to delete or [#] to exit.

## [804][921]-[925] Replace Wireless Devices

Use this option to replace a faulty device enrolled on the system with another device of the same type while maintaining the configuration of the original. The faulty device does not need to be deleted. To replace a wireless device:

1. Enter Installer Programming section [804] then select one of the following sub-sections.

**Table 12: Replace Device Sub-Sections**

Sub-Section	Description
921	Replace wireless zone devices
922	Replace wireless keys
923	Replace sirens
924	Replace repeater
925	Replace keypad

2. Press [\*] to select a sub-section. The first available device is displayed.

3. Select a device to replace using the scroll keys or go to a specific device by entering a hotkey.

Press [\*]. When prompted, activate the device (full enrollment) or enter the device ID (pre-enrollment). A message is displayed confirming enrollment.

## [804][990][001- 005] Show All Devices

Use this section to review wireless devices enrolled on the system and to view serial numbers associated with each device.

To review wireless device information:

1. Enter Installer Programming section [804][990] then select one of the following sub-sections:

**Table 13: Wireless Device Sub-Sections**

Sub-Section	Descriptions
001	All zones
002	Repeaters
003	Sirens
004	Wireless keys
005	Keypads

2. Press [\*] to select a wireless device type. The first available device is displayed.

3. Use the scroll keys to view the enrolled devices.

NOTE: This option is not fully supported by LED and ICON keypads.

## [904] Placement Testing Wireless Devices (LCD keypads only)

This test is used to determine RF signal status for wireless devices and can be performed at a system keypad or at the individual device. These instructions pertain to testing at the keypad. For instructions on placement testing at the device, refer to the installation sheet provided with the wireless equipment. The following test modes are available: 001-128 – Test wireless zones.

**Table 14: Wireless Device Placement Test Modes**

001-128	Test wireless zones	Test wireless devices individually by zone.
520	Test all repeaters	Test each enrolled wireless repeater. 521-528 for repeaters 1-8.
550	Test all sirens	Test each enrolled wireless siren. 551-556 for sirens 1-16
600	Test all wireless keys	Test individual wireless keys. Once in this section, press a button on the wireless key to begin the test. 601-632 for wireless keys 1-32.
700	Test all keypads	Test each enrolled keypad 701-716 for keypads 1-16.

Two test results are provided:

- 24-hour: Average results of signal strength testing over a 24-hour period.
- Now: Signal status results of the current test.

During testing, the Ready and Armed LED's flash to indicate data is being received. A flashing Trouble LED indicates RF interference. The following status indicators may be displayed:

**Table 15: Wireless Device Status Indicators**

LCD	Status	Repeater [905]
Strong	Strong signal strength	Repeater 1
Good	Good signal strength	Repeater 2
Poor	Poor signal strength	Repeater 3
1-Way	The device is operating in 1-way mode only. The alarm panel cannot configure or control the device	Repeater 4
Not Test	Displayed as the Now result if no test was performed.	Repeater 5
None	Always displayed as the 24-hour result when testing wireless keys.	Repeater 6

NOTE: For UL/ULC installations, only STRONG signal levels are acceptable.

## Troubleshooting

1. When attempting to assign a zone number to a wireless device, the keypad responds with a long beep.
  - Ensure that the keypad is properly connected to the Corbus.
2. After entering the ESN of a wireless device, then tripping it, the keypad does not indicate the zone is open.
  - Ensure the ESN has been entered correctly.
  - Ensure that the zone is enabled for the partition (if partition programming is used).
  - Ensure that the wireless zone is not assigned to a zone used by HSM2108 modules, an on-board zone or a keypad zone.
  - Ensure that the zone is programmed for something other than "Null Operation". "Poor" or no results are received from a module placement test.
  - Verify that you are testing the correct zone.
  - Verify the device is in range of the keypad. Test the device in the same room as the receiver.
  - Confirm that the keypad is properly connected to the Corbus.
  - Check that the zone is being tested correctly. Refer to the instructions that came with the device.
  - Check that the batteries are working and installed correctly.
  - Look for large metal objects that may be preventing the signal from reaching the keypad.

- The device must be located where consistent "Good" results are obtained. If several devices show "Poor" results, or if panic pendants and wireless keys operate inconsistently, move the receiver.

For systems compliant with EN50131-1 and EN50131-3 the HS2LED keypad shall be used in conjunction with an LCD type keypad (HS2LCD(P) or HS2LCDRF(P)8 or HS2LCDWF(P)8) in order to be able to review logged events and also to allow overriding of conditions that inhibit setting of the alarm system. The HS2LED keypad alone cannot support these functions.



## Word Library

Item #	Text	Item #	Text	Item #	Text	Item #	Text	Item #	Text	Item #	Text	Item #	Text
001	Aborted	037	Closed	073	Feature	109	Library	145	Pool	181	Tamper	217	N
002	AC	038	Closet	074	Fence	110	Light	146	Porch	182	Temperature	218	O
003	Access	039	Closing	075	Fire	111	Lights	147	Power	183	Test	219	P
004	Active	040	Code	076	First	112	Living	148	Press	184	Time	220	Q
005	Activity	041	Communicator	077	Floor	113	Load	149	Program	185	To	221	R
006	Alarm	042	Computer	078	Force	114	Loading	150	Progress	186	Touchpad	222	S
007	All	043	Control	079	Foyer	115	Low	151	Quiet	187	Trouble	223	T
008	AM	044	Date	080	Freeze	116	Lower	152	Rear	188	Unbypass	224	U
009	Area	045	Daughter's	081	Front	117	Main	153	Receiver	189	Unit	225	V
010	Arm	046	Degrees	082	Fumace	118	Master	154	Report	190	Up	226	W
011	Armed	047	Delay	083	Gallery	119	Mat	155	RF	191	West	227	X
012	Arming	048	Den	084	Garage	120	Medical	156	Right	192	Window	228	Y
013	Attic	049	Desk	085	Gas	121	Memory	157	Room	193	Zone	229	Z
014	Auxiliary	050	Detector	086	Glass	122	Menu	158	Safe	194	0	230	Space
015	Away	051	Dining	087	Goodbye	123	Monoxide	159	Saver	195	1	231	,
016	Baby	052	Disarmed	088	Gym	124	Mother's	160	Schedule	196	2	232	-
017	Back	053	Door	089	Hallway	125	Motion	161	Screen	197	3	233	_ (Underscore)
018	Bar	054	Down	090	Heat	126	No	162	Second	198	4	234	*
019	Basement	055	Download	091	Hello	127	North	163	Sensor	199	5	235	#
020	Bathroom	056	Downstairs	092	Help	128	Not	164	Service	200	6	236	:
021	Battery	057	Drawer	093	High	129	Now	165	Shed	201	7	237	/
022	Bedroom	058	Driveway	094	Home	130	Number	166	Shock	202	8	238	?
023	Bonus	059	Duct	095	House	131	Off	167	Shop	203	9		
024	Bottom	060	Duress	096	In	132	Office	168	Side	204	A		
025	Breezeway	061	East	097	Install	133	OK	169	Siren	205	B		
026	Building	062	Energy	098	Interior	134	On	170	Sliding	206	C		
027	Bus	063	Enter	099	Intrusion	135	Open	171	Smoke	207	D		
028	Bypass	064	Entry	100	Invalid	136	Opening	172	Son's	208	E		
029	Bypassed	065	Error	101	Is	137	Panic	173	Sound	209	F		
030	Cabinet	066	Exercise	102	Key	138	Partition	174	South	210	G		
031	Camera	067	Exit	103	Kids	139	Patio	175	Special	211	H		
032	Canceled	068	Exterior	104	Kitchen	140	Pet	176	Stairs	212	I		
033	Car	069	Factory	105	Latchkey	141	Phone	177	Stay	213	J		
034	Carbon	070	Failure	106	Laundry	142	Please	178	Sun	214	K		
035	Central	071	Family	107	Left	143	PM	179	Supervisory	215	L		
036	Chime	072	Father's	108	Level	144	Police	180	System	216	M		

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Models: HS2LCDRF, HS2LCDRF-P, HS2CNRF, HS2CNRF-P, HS2CNRF-P (operating in 912-919MHz band) are compliant with applicable FCC Part 15.247 and IC RSS-212 rules. WARNING: To comply with FCC and IC RF exposure compliance requirements, the HS2LCDRF-P or HS2CNRF-P keypads should be located at a distance of at least 20 cm from all persons during normal operation. The antennas used for this product must not be co-located or operated in conjunction with any other antenna or transmitter. This device complies with FCC Rules Part 15 and with Industry Canada license-exempt RSS (standards). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may be received or that may cause undesired operation. IC:163A - HS2KRF-P. The term "IC" before the radio certification number only signifies that Industry Canada technical specifications were met. Le présent appareil est conforme aux CNR d'industrie Canada applicables aux appareils sans licence de radio. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique susceptible de subir, même si le brouillage est susceptible d'en compromettre le fonctionnement. Operating Instructions shall be made available to the user.

The Model HS2LED, HS2LCD (P), HS2CM (P), HS2LCDRF (P), HS2CNRF (P) Key Pads have been certified by Telecommunication Canada to EN50131-12006 - A1:2009, EN50131-3:2009 for Grade 2, Class II, EN50131-Grade2/Class II. This installation sheet applies to the following models: HS2LED, HS2CN, HS2CN, HS2CNRF, HS2CNRF-P, HS2LCD, HS2LCDRF, HS2LCDRF-P, HS2CNDRF and 4 - 9 battery systems (12/20/24VAC, 8 where the system operates in 680MHz band, and where the system operates in 433MHz band.

Hentley, DSC, declares that this device is in compliance with the essential requirements and other relevant provisions of the directive 1990/269/EEC concerning the minimum safety requirements for the use of work equipment.  
The complete RPT/RTTE declaration of Conformity can be found at [http://www.dsc.com/settings\\_index.aspx](http://www.dsc.com/settings_index.aspx)  
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(DN) DSC, proizlagač izjavlja, da izdelek u skladu s osnovnim zahtevima i drugim relevantnim odredbama direktive 1990/269/EEC.  
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