

# HS2LED/HS2ICN(P)(RF)x/HS2LCD(RF)(P)x v1.0

Installation Instructions, Instructions d'Installation, Instrucciones de instalación,  
Instruções de Instalação

English, Français, Español, Português



**WARNING:** Refer to the PowerSeries Neo Reference manual for information on limitations regarding product use and function, and information on the limitations as to the liability of the manufacturer.

**NOTE:** These instructions must be used in conjunction with the system installation manual of the control panel with which this equipment is intended to be used. This installation sheet applies to the following models: HS2LED, HS2ICN, HS2ICNP, HS2ICNRFx, HS2ICNRFPx, HS2LCD, HS2LCDP, HS2LCDRFx and HS2LCDRFPx; x = 9 where the system operates in 912-919MHz, 8 where the system operates in 868MHz band, and 4 where the system operates in 433MHz band. The Model HS2LED, HS2LCD(P), HS2ICN(P), HS2LCDRF(P)8, HS2ICNRF(P)8 keypads have been certified by Telefication according to EN50131-1:2006 + A1:2009, EN50131-3:2009 for Grade 2, Class II.

PowerSeries  
**neo**

**DSC**

A Tyco International Company



29008467 R001

## Installation Instructions

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 transceiver with the respective HS2 keypad.

\* Model not UL/ULC listed.

### Specifications

- Temperature range: -10°C to +55°C (14°F to 131°F); Temperature range for 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:55mA(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)P/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	PGx926 <sup>UL</sup>
Wireless PG smoke and heat detector	PGx916 <sup>UL</sup>
Wireless PG CO detector	PGx913
Wireless PG PIR motion detector	PGx904(P) <sup>UL</sup>
Wireless PG PIR + camera motion detector	PGx934(P) <sup>UL</sup>
Wireless PG curtain motion detector	PGx924 <sup>UL</sup>
Wireless PG dual tech motion detector	PGx984(P)
Wireless PG mirror motion detector	PGx974(P) <sup>UL</sup>
Wireless PG outdoor motion detector	PGx994 <sup>UL</sup>
Wireless PG glass break detector	PGx912
Wireless PG shock detector	PGx935 <sup>UL</sup>
Wireless PG flood detector	PGx985 <sup>UL</sup>
Wireless PG temperature detector (indoor)	PGx905 <sup>UL</sup>
Outdoor temperature probe (requires PGx905)	PGTEMP-PROBE
Wireless PG key	PGx939 <sup>UL</sup>
Wireless PG key	PGx929 <sup>UL</sup>
Wireless PG panic key	PGx938 <sup>UL</sup>
Wireless PG 2-button key	PGx949 <sup>UL</sup>
Wireless PG indoor siren	PGx901 <sup>UL</sup>
Wireless PG outdoor siren	PGx911 <sup>UL</sup>
Wireless PG repeater	PGx920 <sup>UL</sup>
Wireless PG door/window contact	PGx975 <sup>UL</sup>
Wireless PG door/window contact w/AUX	PGx945 <sup>UL</sup>

**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

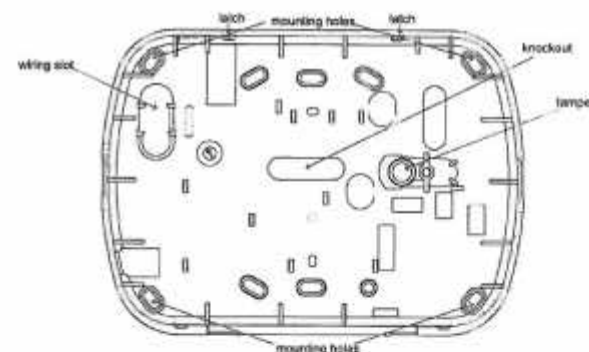
Mount the keypad where it is accessible to designated points of entry and exit. Once a dry and secure location is selected, perform the following steps to mount the keypad.

### Disassemble Keypad

1. Insert the tip of a flat-head screwdriver into the slots at the bottom left and right of the keypad.
2. 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.

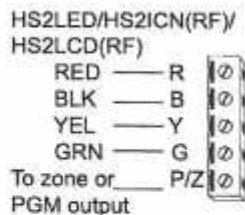
**NOTE:** For UL/ULC listed commercial burglary installations, the use of the keypad tamper is mandatory.

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:



3. 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 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.

4. 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 [#].

**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 Keypad 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 option 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 only)

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].

- 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).
- Use the [**<**][**>**] keys to scroll to the desired character's location, using the [**<**][**>**] keys.
- 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 [**\***]

[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

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.

**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:

- Press [**\***][8][Installer Code][000][001].
- 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.
- Press [**\***] to open the menu.
- Press [**\***] again to select the "Word Entry" option.
- Enter the 3-digit number corresponding to a word (see Words Library) or use the [**<**][**>**] keys to view words in the library.
- Press [**\***] to select the word.
- To add another word, repeat the previous procedures from step 3.
- To add a space, press the right scroll key [**>**].
- To clear characters, select "Clear to End" or "Clear Display" from the menu.
- 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

- Press [**\***][6][Master Code].
- Use the [**<**][**>**] keys to scroll to either Bright Control, Contrast Control, or Buzzer Control.
- Press [**\***] to select one of the following settings:
  - Brightness/LED Bar Control: 15 backlighting levels are available.
  - Contrast Control: 15 different display contrast levels are available.
  - Buzzer Control: 15 different buzzer control levels are available.
- Use the [**<**][**>**] keys to scroll to the desired setting.

### Keypad Programming

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






A 2-digit entry is required to assign the keypad to a partition. Entering 00 assigns the keypad as Global. Valid entries are 00-32. The default is 01.

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

To program a function key:

- Press [**\***][8][Installer Code].
- Enter [861]-[876] for keypad programming.
- Enter [001]-[005] for function keys 1-5 or use the [**<**][**>**] keys and press [**\***].
- Enter a 2-digit number to assign a function key operation - [00]-[68]. See the following table.
- Repeat from step 3 until all function keys are programmed.
- Press [#] twice to exit Installer Programming.

##### [001]-[005] Function Key Assignment

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

#### Keypad Function Keys

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

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

#### [011] Keypad Input/Output Programming

Zone or 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	1	Fire Key Enabled	Fire Key Disabled
ON	2	Medical Key Enabled	Medical Key Disabled
ON	3	Panic Key Enabled	Panic Key Disabled
ON	4	Display Access Code When Programming	Display Xs When Programming Access Codes

**[022] Second Keypad Options**

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

**[023] Third Keypad Options**

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

**[030] Downloaded LCD Message**

\_\_\_\_\_  
 \_\_\_\_\_

**[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 1-128**

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]).

Default: 01 \_\_\_\_

**Valid Entries**

- 01 6 beeps
- 02 Bing-Bing tone
- 03 Ding-Dong tone
- 04 Alarm tone (4 second duration)
- 05 Zone name


**[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.

**Table 3: 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.
6	1 to 8 – These numbers display toggles or digits in binary while they are needed.	13	Night – Indicates that the panel is armed in night mode.
7	Bypass – Indicates that there are zones automatically or manually bypassed.	14	Ready Light (green) – If the Ready light is on, the system is ready for arming.
8	Open – When zones are opened, this icon will turn on and the open zones are displayed.	15	Armed Light (red) – If the Armed light is on, the system has been armed successfully.
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.	16	System Trouble – Indicates that a system trouble is active.
		17	AC – Indicates that AC is present at the main panel.

## Proximity (Prox) Tags Support (HS2ICNP/HS2ICNRF/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/HS2ICNRF/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 4: 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 5: 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 hotkey 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 6: Jam Detect Options

00	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 7: 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 8: 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 9: 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 10: Module Label Sub-Sections**

Sub-Section	Description
901	Delete wireless zone devices
902	Delete wireless key
903	Delete sirens

**Table 10: Module Label Sub-Sections**

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 11: 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:

- [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**

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:

**Table 12: 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.





## Word Library

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

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This equipment generates and uses radio frequency energy and if not installed and used properly, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for

Class B device in accordance with the specifications in Subpart "B" of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to television or radio reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient the receiving antenna
- Relocate the alarm control with respect to the receiver
- Move the alarm control away from the receiver
- Connect the alarm control into a different outlet so that alarm control and receiver are on different circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the FCC helpful: "How to Identify and Resolve Radio/Television Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock # 004-000-00345-4.

Operating Instructions shall be made available to the user.  
Models: HS2LCDRF9, HS2LCDRFP9, HS2ICNRF9, HS2ICNRP9 (operating in 912-919MHz band) are compliant with applicable FCC Part 15.247 and IC RSS-210 rules.

**WARNING!** To comply with FCC and IC RF exposure compliance requirements, the HS2LCDRF(P)9 or HS2ICNRF(P)9 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 standard(s). 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-160A - HS2ICRFP9

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 radio exempts de licence. 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 subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Hereby, DSC, declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

The complete R&TTE Declaration of Conformity can be found at [http://www.dsc.com/listings\\_index.aspx](http://www.dsc.com/listings_index.aspx)

(CZE) DSC jako výrobce prohlašuje, že tento výrobek je v souladu se všemi relevantními požadavky směrnice 1999/5/EC.

(DAN) DSC erklærer herved at denne komponenten overholder alle vigtige krav samt andre bestemmelser gitt i direktiv 1999/5/EC.

(DUT) Hierbij verklaart DSC dat dit toestel in overeenstemming is met de eisen en bepalingen van richtlijn 1999/5/EC.

(FIN) DSC vakuuttaa laiteen täyttävän direktiivin 1999/5/EC olennaiset vaatimukset.

(FRE) Par la présente, DSC déclare que ce dispositif est conforme aux exigences essentielles et autres stipulations pertinentes de la Directive 1999/5/EC.

(GER) Hierdurch erklärt DSC, daß dieses Gerät den erforderlichen Bedingungen und Voraussetzungen der Richtlinie 1999/5/EC entspricht.

(GRE) Δια του παρόντος, η DSC, δηλώνει ότι αυτή η συσκευή είναι σύμφωνη με τις ουσιαστικές απαιτήσεις και με όλες τις άλλες σχετικές αναφορές της Οδηγίας 1999/5/EC.

(ITA) Con la presente la Digital Security Controls dichiara che questo prodotto è conforme ai requisiti essenziali ed altre disposizioni (relevanti) relative alla Direttiva 1999/5/CE.

(NOR) DSC erklærer at denne enheten er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.

(POL) DSC oświadcza, że urządzenie jest w zgodności z zasadniczymi wymaganiami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/WE.

(POR) Por este meio, a DSC, declara que este equipamento está em conformidade com os requisitos essenciais e outras determinações relevantes da Directiva 1999/5/CE.

(SPA) Por la presente, DSC, declara que este equipo está en conformidad con los requisitos esenciales y otros requisitos relevantes de la Directiva 1999/5/EC.

(SWE) DSC bekräftar härmed att denna apparat uppfyller de väsentliga kraven och andra relevanta bestämmelser i Direktivet 1999/5/EC.