

HSM2HOST 2-Way Wireless Transceiver

V1.0 Installation Manual



WARNING: This manual contains information on limitations regarding product use and function and information on the limitations as to liability of the manufacturer. The entire manual should be carefully read.

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1.1 Specifications and Features

- Current Draw: 60mA
- Voltage: Draws current from the PowerSeries Neo alarm controller (10.8VDC to 12.5VDC) - (Limited Power Supply)
- Frequency: 433MHz (HSM2HOST4), 868MHz (HSM2HOST8), 912-919MHz (HSM2HOST9^{UL})
- Zones - can receive signals from up to 128 wireless zones, plus 16 wireless keypads. Also supports up to 32 wireless keys or 32 panic pendants
- Supervisory - programmable supervisory window
- Can be wired up to 1000 ft. / 230 m from the main panel with 22 AWG wire
- Connects to Corbus
- Compatibility: The HSM2HOST is used with PowerSeries Neo alarm panels
- Operating temperature: 0°C to +49°C (32-122°F)
- Relative humidity: 93% non-condensing
- Separate, built-in wall and case tampers

NOTE: For Commercial BURG (UL) the Supervisory window shall be set to 4 hours.

For Residential Fire (UL/ULC) the Supervisory window shall be set to 200 seconds.

For Residential BURG (UL/ULC) the supervisory window shall be set to 24 hours.

For UL Home Healthcare applications the supervisory window shall be set to 24 hours

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

1.2 Compatible Wireless Devices

Please refer to the instruction sheets of the following devices for more information. On the chart below and throughout this document, x in the model number represents the operating frequency of the device as follows: 9 (912-919 MHz), 8 (868MHz), 4 (433MHz).

The HSM2HOSTx (x= 4/8/9) can receive signals from the following devices:

Alarm Controllers	
PowerSeries Neo alarm Controllers	HS2128 HS2064 HS2032 HS2016
Modules	
Wireless keypads	HS2LCDWFx HS2LCDWFPx HS2LCDWFPVx
Wireless Devices	
Wireless PG smoke detector	PGx926 ^{UL}
Wireless PG smoke and heat detector	PGx916 ^{UL}
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	PGx924 ^{UL}
Wireless PG dual tech motion detector	PGx984(P)
Wireless PG mirror motion detector	PGx974(P) ^{UL}
Wireless PG outdoor motion detector	PGx994 ^{UL}
Wireless PG glass break detector	PGx912
Wireless PG shock detector	PGx935 ^{UL}
Wireless PG flood detector	PGx985 ^{UL}
Wireless PG temperature detector (indoor use)	PGx905 ^{UL}
Wireless PG key	PGx939 ^{UL}
Wireless PG key	PGx929 ^{UL}
Wireless PG panic key	PGx938 ^{UL}
Wireless PG 2-button key	PGx949 ^{UL}
Wireless PG indoor siren	PGx901 ^{UL}
Wireless PG outdoor siren	PGx911 ^{UL}
Wireless PG repeater	PGx920 ^{UL}
Wireless PG door/window contact	PGx975 ^{UL}
Wireless PG door/window contact w/ AUX	PGx945 ^{UL}

1.3 Safety Instructions

- This equipment must be installed by Service Persons only (service person is defined as a person having the appropriate technical training and experience necessary to be aware of hazards to which that person may be exposed in performing a task and of measures to minimize the risks to that person or other persons). It must be installed and used within an environment that provides the pollution degree max 2, over voltages category II, in non-hazardous, indoor locations only.
- The installer is responsible for instructing the system user in regards to electrical safety precautions when using a system which includes this equipment and also in regards to each of the following:
 - Do not attempt to service this product. Opening or removing covers may expose the user to dangerous voltages or other risks.
 - Any servicing shall be referred to service persons only.
- Use authorized accessories only with this equipment.
- Secure the transceiver to the building structure before applying power to the alarm controller.
- Internal wiring must be routed in a manner that prevents:
 - Excessive strain on wire and on terminal connections;
 - Loosening of terminal; connections;
 - Damage to conductor insulation.

Use adequate mounting means to secure the receiver to the building structure (e.g., plastic/metal anchors and screws). Only UL/ULC listed devices can be used in UL/ULC listed installations.

HSM2HOST9 is listed for UL Commercial Burglary, Residential Fire, Residential Burglary and Home Health Care, ULC Residential Fire and Residential Burglary:

UL1610 Central-Station Burglar Alarm Units

UL1023 Household Burglar-Alarm System Units

UL985 Household Fire Warning System Units

UL1637 Home Health Care Signaling Equipment

ULC-S545-02 Residential Fire Warning System Control Units

ORD-C1023-1974 Household Burglar-Alarm System Units

UL 609 Local Burglar Alarm Units and Systems

UL365 Police Station Connected Burglar Alarm Units and Systems

2.1 Introduction

The HSM2HOSTx two-way wireless transceiver adds wireless capability to PowerSeries Neo alarm controllers, model HS2128, HS2064, HS2032 or HS2016. The HSM2HOST receives signals from wireless zones and wireless keys, and provides information to the alarm controller it is connected to. This manual describes how to install, program and maintain the HSM2HOST. Note that only one HSM2HOST or one RFK keypad can be enrolled on the alarm system.

Before installing:

1. Plan the placement and wiring of the security system (see system installation manual).
2. Install the control panel and optional modules.
3. Temporarily mount all wireless devices in the intended location.

2.1.1 Installation Process Overview

To install and set up the HSM2HOST and wireless devices:

1. Temporarily mount and wire the HSM2HOST module (“Choose a Mounting Location” on page 12).
2. Enroll the HSM2HOST and first wireless keypad (“Enroll The HSM2HOST” on page 12).
3. Check the location for RF interference levels (“[804][801] RF Jam Detect” on page 14).
4. Enroll wireless devices (“[804][000] Enroll Wireless Devices” on page 13).
5. Complete zone and other programming on the system (“Wireless Device Setup and Programming” on page 13).
6. Test the placement of all the wireless devices (“[904] Placement Testing Wireless Devices” on page 16).
7. Permanently mount the HSM2HOST and wireless devices (“Permanently Mount” on page 13).

2.1.2 Controls & Indicators

Status LEDs

The LEDs on the front of the HSM2HOST provide feedback regarding the installation, operation and troubleshooting of the unit. The LEDs function as follows:

Red LED	Operation
Module Power Up:	On steady during module power-up sequence then off.
Firmware Update:	Slow flashing = update in progress Very rapid flashing = update corrupt, contact distributor
Trouble Condition:	• No trouble: 1 rapid flash every 10 seconds. If troubles are present, a series of flashes occur every 2 seconds. Each series of flashes indicate troubles as follows: • 1 flash: Module not enrolled • 2 flashes: Loss of contact with module for over 60 seconds • 3 flashes: Corbus low voltage
Module Confirmation:	On steady during module confirmation process.
Placement Test:	On steady when location is bad. Off when location is good.
Green LED	Operation
Placement Test:	On steady when location is suitable. Off when location is unsuitable. NOTE: For UL/ULC listed systems, signal must be “Strong”. See Wireless Device Status Indications on page 16 for details.

Tamper

The HSM2HOST has separate built-in wall and case tampers. The case tamper is disabled by default on the NA version (enabled on EU version). Section [804][510] option 3 enables or disables the case tamper. Enable or disable the wall tamper by fastening the breakaway wall tamper bracket securely to the wall using one of the supplied screws.

The case tamper activates when the case is opened and restores when the case is closed. The wall tamper on the back of the unit is depressed by the mounting surface when properly installed. If the unit is removed, the tamper activates. Ensure the mounting surface is smooth and free of obstructions that block access to the rear of the unit. Electrical wires should not run over or under the module when it is mounted.

NOTE: The built in wall and case tamper must be installed and enabled for UL/ULC listed Commercial/ Residential Burglary applications.

3.1 Setup & Wiring

This section describes how to set up and wire the HSM2HOST module.

3.1.1 Choose a Mounting Location

NOTE: Permanently mount the HSM2HOST receiver and wireless devices AFTER placement testing each device (section 3.1.6 on page 13).

Find a place that is:

- dry,
- within operating temperature range,
- central to the proposed placement of all wireless devices,
- as high as possible. The range is reduced if mounted below ground level,
- far from sources of interference, including: electrical noise (computers, televisions, electric motors, appliances, heating and air conditioning units), large metal objects like heating ducts and plumbing which may shield the electro-magnetic waves,
- smooth and free of obstructions that block access to the rear of the unit.

3.1.2 Connect the HSM2HOST

Caution: Remove all power (AC, DC, telephone lines) from the system while connecting modules to the Corbus.

To connect the HSM2HOST:

1. With the alarm panel powered down, connect the HSM2HOST to the four-wire Corbus of the alarm panel according to Figure 1.
2. Once the wiring is complete, power up the security system.

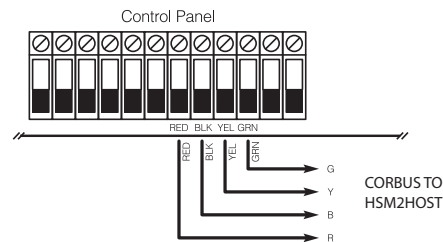


Figure: 3-1 Wiring Diagram

3.1.3 Enroll The HSM2HOST

The HSM2HOST must be enrolled onto the alarm panel before any wireless devices can be enrolled.

At initial power-up of the alarm panel

When the alarm system is powered up for the first time, the first keypad or the HSM2HOST (if using a wireless keypad as the first keypad) can be enrolled. To do this:

1. Once the HSM2HOST is wired to the alarm panel and power has been applied, power up a wireless keypad.
2. Press any button on the keypad to enroll it on the HSM2HOST. The HSM2HOST is then automatically enrolled on the alarm panel.

Alternately, enroll the HSM2HOST on the system at any time using the following procedure:

1. Enter Installer Programming section [902][000] (Auto Enroll All Modules). Modules are automatically detected in the following order:
 - 1 Keypads
 - 2 Zone Expander
 - 3 Output Module
 - 4 HSM2HOSTx
 - 5 Audio Verification Module
 - 6 Power Supply 1A
2. When prompted, press [*] to enroll.

Or another Alternate method,

1. Enter Installer Programming section [902][001] (Enroll Modules).
2. When prompted, key in the serial number found on the back of the module. The module is enrolled.

3.1.4 Delete the HSM2HOST

To remove the HSM2HOST from the system:

1. Enter Installer Programming section [902][106] (Delete HSM2HOSTx).
2. Press [*] to delete.

3.1.5 Test HSM2HOST Location for RF Interference

The HSM2HOST performs best in locations where RF interference is minimal. With the alarm panel powered up and the HSM2HOST enrolled, enter installer programming section [904]. Observe the status of the red LED. If the red LED is on, interference levels are high and a new mounting location should be found. If the red LED is off, interference is low and the location is good.

NOTE: For UL/ULC listed systems, signal must be “Strong”. See Wireless Device Status Indications on page 16 for details.

3.1.6 Permanently Mount

Once a suitable location is found, mount the HSM2HOST as follows:

1. Pull the Corbus wires through the holes at the back of the cabinet.
2. Mount the cabinet securely to the wall using the three screws supplied.
3. To enable the wall tamper, fasten the breakaway wall tamper bracket securely to the wall using the supplied screw.

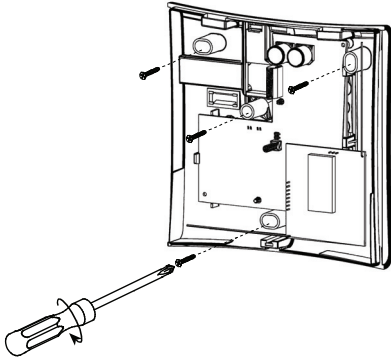


Figure: 3-2 Mounting the HSM2HOST

3.1.7 Other Options

The following actions may be performed on the HSM2HOST:

Table 3-1: HSM2HOST Options

Section	Action
[902][106]	Delete the HSM2HOST from the alarm system.
[903][106]	Confirm that the HSM2HOST is enrolled.
[000][806]	Add a label to appear on LCD keypads.
[900][461]	View HSM2HOST model information.

3.2 Wireless Device Setup and Programming

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

3.2.1 [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 3-2: 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.

3.2.2 [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 3-3: Wireless Device Configuration

Sub-Section	Description
001-128	Configure wireless zones
551-566	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.

3.2.3 [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] then select one of the following options:

Table 3-4: RF 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

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

3.2.4 [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 3-5: 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.

3.2.5 [804][810] Wireless Options

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 3-6: 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	Wireless Tamper	On: module tampers are logged and reported. Off: module tampers are not logged or reported.
04	200s 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.

3.2.6 [804][841] Motion Cameras

To program motion cameras:

1. Enter Installer Programming section [804][841].
2. Select one of the following options by scrolling or entering the hotkey:

Table 3-7: Motion Camera Options

[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 enabled/disabled 03 Medical key enabled/disabled 04 Panic key enabled/disabled

3.2.7 [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 3-8: 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.

3.2.8 [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 3-9: 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.
4. Press [*]. When prompted, activate the device (full enrollment) or enter the device ID (pre-enrollment). A message is displayed confirming enrollment.

3.2.9 [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 3-10: Show all Device Options

Sub-Section	Description
[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.

3.2.10 [804][999] Reset to Factory Defaults

Selecting this option resets HSM2HOST programming to factory default settings.

3.2.11 [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 3-11: Wireless Device Placement Test Modes

[904][001]-[128]	Test wireless zones	Test wireless devices individually by zone. NOTE: Zones with vanishing contacts must be activated to placement test.
[904][520]	Test all repeaters	Test each enrolled wireless repeater. 521-528 for repeaters 1-8
[904][550]	Test all sirens	Test each enrolled wireless siren. 551-566 for sirens 1-16
[904][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.
[904][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 3-12: Wireless Device Status Indications

LCD	Icon*	LED+	Status	Repeater [905]
Strong	1	9	Strong signal strength	Repeater 1
Good	2	10	Good signal strength	Repeater 2
Poor	3	11	Poor signal strength	Repeater 3
1-Way	4	12	The device is operating in 1-way mode only. The alarm panel cannot configure or control the device	Repeater 4
Not Test	5	13	Displayed as the Now result if no test was performed.	Repeater 5
None		14	Always displayed as the 24-hour result when testing wireless keys.	Repeater 6

*For Icon keypads, digit 1 indicates 24-hour test results; digit 2 indicates Now test results.

+For LED keypads, the first digit indicates 24-hour results; the second digit indicates Now test results.

4.1 Programming Worksheets

Use these pages for recording custom programming options. (Installers Programming: [*][8])

[000] Module Labels

[902]	Enroll Module	000 - Auto Enroll 001 - Enroll Modules	[903]	Confirm Module	001 - Confirm Keypads 002 - Confirm Zone Expander 003 - Confirm Output Expander 006 - Confirm HSM2HOST 008 - Confirm Audio Verification 009 - Confirm Power Supply
		002 - Module Slot Assignment (LED/ICON)			
		003 - Module Slot Assignment (LED only)			
	Delete Module	101 - Delete Keypads 102 - Delete Zone Expander 103 - Delete Output Expander 106 - Delete HSM2HOST 108 - Delete Audio Verification 109 - Delete Power Supply			

[801]	Keypad Labels (1 x 14 Characters)	
	001:	009:
	002:	010:
	003:	011:
	004:	012:
	005:	013:
	006:	014:
	007:	015:
	008:	016:
[802]	Zone Expander Labels (1 x 14 Characters)	
	001:	009:
	002:	010:
	003:	011:
	004:	012:
	005:	013:
	006:	014:
	007:	015:
	008:	016:
[803]	Output Expander Labels (1 x 14 Characters)	
	001:	009:
	002:	010:
	003:	011:
	004:	012:
	005:	013:
	006:	014:
	007:	015:
	008:	016:
[806]	HSM2HOST Label (1 x 14 Characters)	
	01:	
[809]	HSM2300 Power Supply Label (1 x 14 Characters)	
	01:	
	02:	
	03:	
	04:	

[810]	HSM2204 4 High-Current Output Label (1 x 14 Characters)	
	01:	
	02:	
	03:	
	04:	
[820]	Siren Label (1 x 14 Characters)	
	01:	09:
	02:	10:
	03:	11:
	04:	12:
	05:	13:
	06:	14:
	07:	15:
	08:	16:
[821]	Repeater Label (1 x 14 Characters)	
	01:	
	02:	
	03:	
	04:	
	05:	
	06:	
	07:	
	08:	

4.1.1 [804] Wireless Programming

[000]	Enroll Wireless Device
	Zone
	Wireless Key
	Siren
	Keypad
	Repeater

[804][000] Wireless Device Enrollment – Zones (copy sheet as needed)

[illegible]

[804][000] Wireless Device Enrollment – Wireless Keys

Key #	Partition #	User	Label	Key #	Partition #	User	Label
1				17			
2				18			
3				19			
4				20			
5				21			
6				22			
7				23			
8				24			
9				25			
10				26			
11				27			
12				28			
13				29			
14				30			
15				31			
16				32			

[804][000] Wireless Device Enrollment – Wireless Sirens

WLS Siren #	Partition #	Siren Label	WLS Siren #	Partition #	Siren Label
1			9		
2			10		
3			11		
4			12		
5			13		
6			14		
7			15		
8			16		

[804][000] Wireless Device Enrollment – Wireless Keypads

WLS Keypad #	Keypad Assignment	Keypad Label	WLS Keypad #	Keypad Assignment	Keypad Label
1			9		
2			10		
3			11		
4			12		
5			13		
6			14		
7			15		
8			16		

[804][000] Wireless Device Enrollment Wireless Repeaters

Repeater #	Repeater Label
1	
2	
3	
4	
5	
6	
7	
8	

[804][001]-[128] Configure Wireless Zones 1-128 (copy sheet as needed)

Zone #	Toggle Options	Zone #	Toggle Options	Zone #	Toggle Options	Zone #	Toggle Options
	[001] Device Options ☒ 1 – Alarm LED ☒ 2 – Reed Switch ☐ 3 – External Input On ☒ 4 – Supervision ☐ 5 – Not Used ☐ 6 – Not Used ☐ 7 – Not Used ☐ 8 – Not Used ☐ 9 – Shock Accumulator ☐ 10 – Not Used ☒ 11 – 24Hr/Night ☐ 12 – Piezo Siren ☐ 13 – Not Used ☒ 14 – Fire Alarm ☐ 15 – Not Used ☐ 16 – Not Used [002] Zone EOL ☐ 00 – Disable ☒ 01 – Single EOL ☐ 02 – Normally Open ☐ 03 – Normally Closed ☐ 04 – Double EOL		[003] High Traffic Shut-down ☒ 01 – Not Active ☐ 02 – Yes-No Delay ☐ 03 – Yes-5s Delay ☐ 04 – Yes-15s Delay ☐ 05 – Yes-30s Delay ☐ 06 – Yes-1m Delay ☐ 07 – Yes-5m Delay ☐ 08 – Yes-10m Delay ☐ 09 – Yes-20m Delay ☐ 10 – Yes-60m Delay [004] Image Brightness ☐ 01 – Image Bright -3 ☐ 02 – Image Bright -2 ☐ 03 – Image Bright -1 ☒ 04 – Image Bright 0 ☐ 05 – Image Bright +1 ☐ 06 – Image Bright +2 ☐ 07 – Image Bright +3		[005] Image Contrast ☐ 01 – Image Contrast -3 ☐ 02 – Image Contrast -2 ☐ 03 – Image Contrast -1 ☒ 04 – Image Contrast 0 ☐ 05 – Image Contrast +1 ☐ 06 – Image Contrast +2 ☐ 07 – Image Contrast +3 [006] Detection Range ☐ 01 – Low Sensitivity ☐ 02 – Mid Sensitivity ☒ 03 – High Sensitivity [007] Detection Sensitivity ☐ 01 – Low Sensitivity ☒ 02 – Mid Sensitivity ☐ 03 – High Sensitivity ☐ 03 – UL Standard [011] Camera Toggles ☒ 01 – Color ☒ 02 – High Resolution ☐ 03 – Low Quality ☐ 04 – Microphone ☐ 09 – AC Power		[016] Event Counter 001-002 (Default:002) [018] Shock Sensitivity 001-019 (Default:008) [019] High Temp. Warning +/- 000-999 (Default:999c) [020] High Temp. Alarm +/- 000-999 (Default:999c) [021] Low Temp. Warning +/- 000-999 (Default:999c) [022] Low Temp. Alarm +/- 000-999 (Default:999c)
Zone #	Toggle Options	Zone #	Toggle Options	Zone #	Toggle Options	Zone #	Toggle Options
	[001] Device Options ☒ 1 – Alarm LED ☒ 2 – Reed Switch ☐ 3 – External Input On ☒ 4 – Supervision ☐ 5 – Not Used ☐ 6 – Not Used ☐ 7 – Not Used ☐ 8 – Not Used ☐ 9 – Shock Accumulator ☐ 10 – Not Used ☒ 11 – 24Hr/Night ☐ 12 – Piezo Siren ☐ 13 – Not Used ☒ 14 – Fire Alarm ☐ 15 – Not Used ☐ 16 – Not Used [002] Zone EOL ☐ 00 – Disable ☒ 01 – Single EOL ☐ 02 – Normally Open ☐ 03 – Normally Closed ☐ 04 – Double EOL		[003] High Traffic Shut-down ☒ 01 – Not Active ☐ 02 – Yes-No Delay ☐ 03 – Yes-5s Delay ☐ 04 – Yes-15s Delay ☐ 05 – Yes-30s Delay ☐ 06 – Yes-1m Delay ☐ 07 – Yes-5m Delay ☐ 08 – Yes-10m Delay ☐ 09 – Yes-20m Delay ☐ 10 – Yes-60m Delay [004] Image Brightness ☐ 01 – Image Bright -3 ☐ 02 – Image Bright -2 ☐ 03 – Image Bright -1 ☒ 04 – Image Bright 0 ☐ 05 – Image Bright +1 ☐ 06 – Image Bright +2 ☐ 07 – Image Bright +3		[005] Image Contrast ☐ 01 – Image Contrast -3 ☐ 02 – Image Contrast -2 ☐ 03 – Image Contrast -1 ☒ 04 – Image Contrast 0 ☐ 05 – Image Contrast +1 ☐ 06 – Image Contrast +2 ☐ 07 – Image Contrast +3 [006] Detection Range ☐ 01 – Low Sensitivity ☐ 02 – Mid Sensitivity ☒ 03 – High Sensitivity [007] Detection Sensitivity ☐ 01 – Low Sensitivity ☒ 02 – Mid Sensitivity ☐ 03 – High Sensitivity ☐ 03 – UL Standard [011] Camera Toggles ☒ 01 – Color ☒ 02 – High Resolution ☐ 03 – Low Quality ☐ 04 – Microphone ☐ 09 – AC Power		[016] Event Counter 001-002 (Default:002) [018] Shock Sensitivity 001-019 (Default:008) [019] High Temp. Warning +/- 000-999 (Default:999c) [020] High Temp. Alarm +/- 000-999 (Default:999c) [021] Low Temp. Warning +/- 000-999 (Default:999c) [022] Low Temp. Alarm +/- 000-999 (Default:999c)

[804][551]-[566] Configure Wireless Sirens 1-16 (Copy sheet as needed)

Siren #	Sub-section	Option	Siren #	Sub-section	Option
	[000] Partition Assignment	<u> </u> 1 2 3 4 5 6 7 8		[000] Partition Assignment	<u> </u> 1 2 3 4 5 6 7 8
	[001] Device Toggles	☒ 1 – Fire Alarm ☒ 2 – Gas/CO Alarm ☒ 3 – Burglary Alarm ☒ 4 – Flood Alarm ☐ 5 – Not Used ☐ 6 – Auto Temp Alarm ☐ 7 – Activity LED ☐ 8 – Not Used ☐ 9 – AC Power		[001] Device Toggles	☒ 1 – Fire Alarm ☒ 2 – Gas/CO Alarm ☒ 3 – Burglary Alarm ☒ 4 – Flood Alarm ☐ 5 – Not Used ☐ 6 – Auto Temp Alarm ☐ 7 – Activity LED ☐ 8 – Not Used ☐ 9 – AC Power
	[002] Strobe Alarm	☐ 1 – Disabled ☒ 2 – Timer Limited ☐ 3 – Until Disarmed		[002] Strobe Alarm	☐ 1 – Disabled ☒ 2 – Timer Limited ☐ 3 – Until Disarmed
	[003] Exit Entry Beeps	☒ 1 – Disabled ☐ 2 – Enabled ☐ 3 – Disabled Stay		[003] Exit Entry Beeps	☒ 1 – Disabled ☐ 2 – Enabled ☐ 3 – Disabled Stay
	[004] Squawk	☐ 1 – Disabled ☒ 2 – Sounder Only ☐ 3 – Strobe Only ☐ 4 – Sounder and Strobe		[004] Squawk	☐ 1 – Disabled ☒ 2 – Sounder Only ☐ 3 – Strobe Only ☐ 4 – Sounder and Strobe
	[005] Sounder Volume	☐ 1 – Low ☒ 2 – Medium ☐ 3 – High		[005] Sounder Volume	☐ 1 – Low ☒ 2 – Medium ☐ 3 – High

Siren #	Sub-section	Option	Siren #	Sub-section	Option
	[000] Partition Assignment	<u> </u> 1 2 3 4 5 6 7 8		[000] Partition Assignment	<u> </u> 1 2 3 4 5 6 7 8
	[001] Device Toggles	☒ 1 – Fire Alarm ☒ 2 – Gas/CO Alarm ☒ 3 – Burglary Alarm ☒ 4 – Flood Alarm ☐ 5 – Not Used ☐ 6 – Auto Temp Alarm ☐ 7 – Activity LED ☐ 8 – Smash Alarm ☐ 9 – AC Power		[001] Device Toggles	☒ 1 – Fire Alarm ☒ 2 – Gas/CO Alarm ☒ 3 – Burglary Alarm ☒ 4 – Flood Alarm ☐ 5 – Not Used ☐ 6 – Auto Temp Alarm ☐ 7 – Activity LED ☐ 8 – Smash Alarm ☐ 9 – AC Power
	[002] Strobe Alarm	☐ 1 – Disabled ☒ 2 – Timer Limited ☐ 3 – Until Disarmed		[002] Strobe Alarm	☐ 1 – Disabled ☒ 2 – Timer Limited ☐ 3 – Until Disarmed
	[003] Exit Entry Beeps	☒ 1 – Disabled ☐ 2 – Enabled ☐ 3 – Disabled Stay		[003] Exit Entry Beeps	☒ 1 – Disabled ☐ 2 – Enabled ☐ 3 – Disabled Stay
	[004] Squawk	☐ 1 – Disabled ☒ 2 – Sounder Only ☐ 3 – Strobe Only ☐ 4 – Sounder and Strobe		[004] Squawk	☐ 1 – Disabled ☒ 2 – Sounder Only ☐ 3 – Strobe Only ☐ 4 – Sounder and Strobe
	[005] Sounder Volume	☐ 1 – Low ☒ 2 – Medium ☐ 3 – High		[005] Sounder Volume	☐ 1 – Low ☒ 2 – Medium ☐ 3 – High

[804][601]-[632] Configure Wireless Keys 1-32 (copy as needed)**[000] Wireless Key Partition Assignment (Default: 01)****[001]-[005] Wireless Key Button Programming (Defaults: Key 1: 04, Key 2: 03, Key 3: 01, Key 4: 52, Key 5: 21)****[011] Wireless Key Device Toggles (Default: 01)****[020] Wireless Key User Assignment (Default: 00 – Not Assigned)**

Available programming options:

00- Disabled (Null)	04- Away Arm	09- Night Arm	16- Quick Exit	23- Comm. Output 3	
01- Disarm	05- [*][9] No Entry	12- Global Stay Arm	17- Arm Interior	24- Comm. Output 4	33- Bypass Recall
02- Instant Stay Arm	06- Chime On/Off	13- Global Away Arm	21- Comm. Output 1	29- Bypass Group Recall	51- [M] Key Alarm
03- Stay Arm	07- System Test	14- Global Disarm	22- Comm. Output 2		52- [P] Key Alarm

[601] Wireless Key #1	Partition: 1 2 3 4 5 6 7 8	Button 1: ____ Button 4: ____ Button 2: ____ Button 5: ____ Button 3: ____	Supervision: ☐ Yes No ☒	User Number:
[602] Wireless Key #2	Partition: 1 2 3 4 5 6 7 8	Button 1: ____ Button 4: ____ Button 2: ____ Button 5: ____ Button 3: ____	Supervision: ☐ Yes No ☒	User Number:
[603] Wireless Key #3	Partition: 1 2 3 4 5 6 7 8	Button 1: ____ Button 4: ____ Button 2: ____ Button 5: ____ Button 3: ____	Supervision: ☐ Yes No ☒	User Number:
[604] Wireless Key #4	Partition: 1 2 3 4 5 6 7 8	Button 1: ____ Button 4: ____ Button 2: ____ Button 5: ____ Button 3: ____	Supervision: ☐ Yes No ☒	User Number:
[605] Wireless Key #5	Partition: 1 2 3 4 5 6 7 8	Button 1: ____ Button 4: ____ Button 2: ____ Button 5: ____ Button 3: ____	Supervision: ☐ Yes No ☒	User Number:
[606] Wireless Key #6	Partition: 1 2 3 4 5 6 7 8	Button 1: ____ Button 4: ____ Button 2: ____ Button 5: ____ Button 3: ____	Supervision: ☐ Yes No ☒	User Number:
[607] Wireless Key #7	Partition: 1 2 3 4 5 6 7 8	Button 1: ____ Button 4: ____ Button 2: ____ Button 5: ____ Button 3: ____	Supervision: ☐ Yes No ☒	User Number:
[608] Wireless Key #8	Partition: 1 2 3 4 5 6 7 8	Button 1: ____ Button 4: ____ Button 2: ____ Button 5: ____ Button 3: ____	Supervision: ☐ Yes No ☒	User Number:
[609] Wireless Key #9	Partition: 1 2 3 4 5 6 7 8	Button 1: ____ Button 4: ____ Button 2: ____ Button 5: ____ Button 3: ____	Supervision: ☐ Yes No ☒	User Number:
[610] Wireless Key #10	Partition: 1 2 3 4 5 6 7 8	Button 1: ____ Button 4: ____ Button 2: ____ Button 5: ____ Button 3: ____	Supervision: ☐ Yes No ☒	User Number:
[611] Wireless Key #11	Partition: 1 2 3 4 5 6 7 8	Button 1: ____ Button 4: ____ Button 2: ____ Button 5: ____ Button 3: ____	Supervision: ☐ Yes No ☒	User Number:
[612] Wireless Key #12	Partition: 1 2 3 4 5 6 7 8	Button 1: ____ Button 4: ____ Button 2: ____ Button 5: ____ Button 3: ____	Supervision: ☐ Yes No ☒	User Number:
[613] Wireless Key #13	Partition: 1 2 3 4 5 6 7 8	Button 1: ____ Button 4: ____ Button 2: ____ Button 5: ____ Button 3: ____	Supervision: ☐ Yes No ☒	User Number:
[614] Wireless Key #14	Partition: 1 2 3 4 5 6 7 8	Button 1: ____ Button 4: ____ Button 2: ____ Button 5: ____ Button 3: ____	Supervision: ☐ Yes No ☒	User Number:
[615] Wireless Key #15	Partition: 1 2 3 4 5 6 7 8	Button 1: ____ Button 4: ____ Button 2: ____ Button 5: ____ Button 3: ____	Supervision: ☐ Yes No ☒	User Number:

[804]-[701]-[716] Wireless Keypad Programming (copy as needed)

Keypad #:				
[000]	Partition Assignment:	00 – Global 01 – ☒ Partition 1 02 – ☐ Partition 2	03 – ☐ Partition 3 04 – ☐ Partition 4 05 – ☐ Partition 5	06 – ☐ Partition 6 07 – ☐ Partition 7 08 – ☐ Partition 8
Function Key Programming Options:				
	00 - Null Key 02 - Instant Stay Arm 03 - Stay Arm 04 - Away Arm 05 - [*][9]No Entry Arm 06 - Chime On/Off 07 - System Test 09 - Night Arm 11 - Away Arm no Entry 12 - Global Stay Arm	13 - Global Away Arm 14 - Global Disarming 16 - Quick Exit 17 - Arm Interior 21 - Command Output 1 22 - Command Output 2 23 - Command Output 3 24 - Command Output 4 29 - Bypass Group Recall 30 - Quick Bypass	31 - Local PGM Active 32 - Bypass Mode 33 - Bypass Recall 34 - User Programming 35 - User Functions 36 - Reactivate Stay/Away/ Night zones 37 - Time/Date Programming 39 - Trouble Display 40 - Alarm Memory	61 - Partition Select 1 62 - Partition Select 2 63 - Partition Select 3 64 - Partition Select 4 65 - Partition Select 5 66 - Partition Select 6 67 - Partition Select 7 68 - Partition Select 8
	[001] – Key 1 (03):	[003] – Key 3 (06):	[005] – Key 5 (16):	
	[002] – Key 2 (04):	[004] – Key 4 (22):		
[011]	Keypad I/O (Zone number or output number; 3-digit decimal; Default: 000):			
[012]	Local PGM Output Timer:	Pulse Time (Default: 00 minutes) Pulse Time (Default: 05 seconds)		
[021]	Keypad Option 1 2-digit decimal	01 – ☒ [F] Key Enabled 02 – ☒ [M] Key Enabled	03 – ☒ [P] Key Enabled 04 – ☒ Display Code or X's	
[022]	Keypad Option 2	01 – ☒ Local Clock Display 02 – ☐ Local Clock 24-Hour 03 – ☒ Auto Alarm Scroll 05 – ☒ Power LED	06 – ☒ Power LED AC Present 07 – ☒ Alarms Displayed if Armed 08 – ☒ Auto Scroll Open Zones	
[023]	Keypad Option 3	01 – ☐ Armed LED Power Save 02 – ☒ Keypad Status Shows Arm Mode 03 – ☐ 5th Terminal is PGM Output/Zone Input 07 – ☐ Local Display of Temperature 08 – ☐ Low Temperature Warning		
[030]	LCD Message:			
[031]	Downloaded LCD Message Duration (3-digit decimal; 000-255; Default: 000):			
[041]	Indoor Temperature Zone Entry (3-digit decimal; 000-128; Default: 000):			
[042]	Outdoor Temperature Zone Entry (3-digit decimal; 000-128; Default: 000):			
[101]- [128]	Door Chime Beeps:	00 – ☐ Disabled 01 – ☒ 6 Beeps 02 – ☐ Bing Bong	03 – ☐ Ding Dong 04 – ☐ Alarm Tone 05 – ☐ Zone Name	

Door Chime Zone Assignment:	1	___	13	___	25	___	37	___	49	___	61	___	73	___	85	___	97	___	109	___	121	___
	2	___	14	___	26	___	38	___	50	___	62	___	74	___	86	___	98	___	110	___	122	___
	3	___	15	___	27	___	39	___	51	___	63	___	75	___	87	___	99	___	111	___	123	___
	4	___	16	___	28	___	40	___	52	___	64	___	76	___	88	___	100	___	112	___	124	___
	5	___	17	___	29	___	41	___	53	___	65	___	77	___	89	___	101	___	113	___	125	___
	6	___	18	___	30	___	42	___	54	___	66	___	78	___	90	___	102	___	114	___	126	___
	7	___	19	___	31	___	43	___	55	___	67	___	79	___	91	___	103	___	115	___	127	___
	8	___	20	___	32	___	44	___	56	___	68	___	80	___	92	___	104	___	116	___	128	___
	9	___	21	___	33	___	45	___	57	___	69	___	81	___	93	___	105	___	117	___		
	10	___	22	___	34	___	46	___	58	___	70	___	82	___	94	___	106	___	118	___		
	11	___	23	___	35	___	47	___	59	___	71	___	83	___	95	___	107	___	119	___		
	12	___	24	___	36	___	48	___	60	___	72	___	84	___	96	___	108	___	120	___		

[804][801] Jam Detect

- ☐ Disabled
☒ ^{UL} – UL 20/20
☒ ^{EN} – EN 30/60
☐ – Class 6 (30/60)

[804][802] Supervisory Window

- ☐ Disabled
☐ – After 1 Hour ☐ – After 8 Hour
☒ ^{EN} – After 2 Hour ☐ – After 12 Hour
☐ – After 4 Hour ☒ ^{UL} – After 24 Hour

[804][810] Wireless Options

- ☐ 1 – RF Delinquency
☒ ^{EN} 2 – Missing/Jam Alarm
☒ 3 – Wireless Tamper
☐ 4 – 200s Fire Supervision

[804][841] Motion Cameras

001	Visual Verification	01 – ☐ Disabled 02 – ☒ Enabled
002	View Time Window	01 – ☒ Alarm + 5 Minutes 02 – ☐ Alarm + 15 minutes 03 – ☐ Alarm + 1 Hour
003	View Other Alarms	01 – ☒ Fire Alarm 02 – ☒ Duress Alarm 03 – ☒ Medical Alarm 04 – ☒ Panic Alarm

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

[901]	Delete Zones
[902]	Delete Wireless Keys
[903]	Delete Sirens
[904]	Delete Repeaters
[905]	Delete Keypads

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

[921]	Replace Zones
[922]	Replace Wireless Keys
[923]	Replace Sirens
[924]	Replace Repeaters
[925]	Replace Keypads

[804][990] Show All Devices

[001]	Show All Zones
[002]	Show All Repeaters
[003]	Sirens
[004]	Wireless Keys
[005]	Keypads

Limited Warranty

Digital Security Controls warrants the original purchaser that for a period of twelve months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use. During the warranty period, Digital Security Controls shall, at its option, repair or replace any defective product upon return of the product to its factory, at no charge for labour and materials. Any replacement and/or repaired parts are warranted for the remainder of the original warranty or ninety (90) days, whichever is longer. The original purchaser must promptly notify Digital Security Controls in writing that there is defect in material or workmanship, such written notice to be received in all events prior to expiration of the warranty period. There is absolutely no warranty on software and all software products are sold as a user license under the terms of the software license agreement included with the product. The Customer assumes all responsibility for the proper selection, installation, operation and maintenance of any products purchased from DSC. Custom products are only warranted to the extent that they do not function upon delivery. In such cases, DSC can replace or credit at its option.

International Warranty

The warranty for international customers is the same as for any customer within Canada and the United States, with the exception that Digital Security Controls shall not be responsible for any customs fees, taxes, or VAT that may be due.

Warranty Procedure

To obtain service under this warranty, please return the item(s) in question to the point of purchase. All authorized distributors and dealers have a warranty program. Anyone returning goods to Digital Security Controls must first obtain an authorization number. Digital Security Controls will not accept any shipment whatsoever for which prior authorization has not been obtained.

Conditions to Void Warranty

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover:

- damage incurred in shipping or handling;
- damage caused by disaster such as fire, flood, wind, earthquake or lightning;
- damage due to causes beyond the control of Digital Security Controls such as excessive voltage, mechanical shock or water damage;
- damage caused by unauthorized attachment, alterations, modifications or foreign objects;
- damage caused by peripherals (unless such peripherals were supplied by Digital Security Controls Ltd.);
- defects caused by failure to provide a suitable installation environment for the products;
- damage caused by use of the products for purposes other than those for which it was designed;
- damage from improper maintenance;
- damage arising out of any other abuse, mishandling or improper application of the products.

WARNING - READ CAREFULLY

Note to Installers

This warning contains vital information. As the only individual in contact with system users, it is your responsibility to bring each item in this warning to the attention of the users of this system.

System Failures

This system has been carefully designed to be as effective as possible. There are circumstances, however, involving fire, burglary, or other types of emergencies where it may not provide protection. Any alarm system of any type may be compromised deliberately or may fail to operate as expected for a variety of reasons. Some but not all of these reasons may be:

• Inadequate Installation

A security system must be installed properly in order to provide adequate protection. Every installation should be evaluated by a security professional to ensure that all access points and areas are covered. Locks and latches on windows and doors must be secure and operate as intended. Windows, doors, walls, ceilings and other building materials must be of sufficient strength and construction to provide the level of protection expected. A reevaluation must be done during and after any construction activity. An evaluation by the fire and/or police department is highly recommended if this service is available.

Criminal Knowledge

This system contains security features which were known to be effective at the time of manufacture. It is possible for persons with criminal intent to develop techniques which reduce the effectiveness of these features. It is important that a security system be reviewed periodically to ensure that its features remain effective and that it is updated or replaced if it is found that it does not provide the protection expected.

• Access by Intruders

Intruders may enter through an unprotected access point, circumvent a sensing device, evade detection by moving through an area of insufficient coverage, disassemble a warning device, or interfere with or prevent the proper operation of the system.

• Power Failure

Control units, intrusion detectors, smoke detectors and many other security devices require an adequate power supply for proper operation. If a device operates from batteries, it is possible for the batteries to fail. Even if the batteries have not failed, they must be charged, in good condition and installed correctly. If a device operates only by AC power, any interruption, however brief, will render that device inoperative while it does not have power. Power interruptions of any length are often accompanied by voltage fluctuations which may damage electronic equipment such as a security system. After a power interruption has occurred, immediately conduct a complete system test to ensure that the system operates as intended.

• Failure of Replaceable Batteries

This system's wireless transmitters have been designed to provide several years of battery life under normal conditions. The expected battery life is a function of the device environment, usage and type. Ambient conditions such as high humidity, high or low temperatures, or large temperature fluctuations may reduce the expected battery life. While each transmitting device has a low battery monitor which identifies when the batteries need to be replaced, this monitor may fail to operate as expected. Regular testing and maintenance will keep the system in good operating condition.

• Compromise of Radio Frequency (Wireless) Devices

Signals may not reach the receiver under all circumstances which could include metal objects placed on or near the radio path or deliberate jamming or other inadvertent radio signal interference.

• System Users

A user may not be able to operate a panic or emergency switch possibly due to permanent or temporary physical disability, inability to reach the device in time, or unfamiliarity with the correct operation. It is important that all system users be trained in the correct operation of the alarm system and that they know how to respond when the system indicates an alarm.

• Smoke Detectors

Smoke detectors that are a part of this system may not properly alert occupants of a fire for a number of reasons, some of which follow. The smoke detectors may

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Items Not Covered by Warranty

In addition to the items which void the Warranty, the following items shall not be covered by Warranty: (i) freight cost to the repair centre; (ii) products which are not identified with DSC's product label and lot number or serial number; (iii) products disassembled or repaired in such a manner as to adversely affect performance or prevent adequate inspection or testing to verify any warranty claim. Access cards or tags returned for replacement under warranty will be credited or replaced at DSC's option. Products not covered by this warranty, or otherwise out of warranty due to age, misuse, or damage shall be evaluated, and a repair estimate shall be provided. No repair work will be performed until a valid purchase order is received from the Customer and a Return Merchandise Authorization number (RMA) is issued by DSC's Customer Service.

Digital Security Controls Ltd.'s liability for failure to repair the product under this warranty after a reasonable number of attempts will be limited to a replacement of the product, as the exclusive remedy for breach of warranty. Under no circumstances shall Digital Security Controls be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any other legal theory. Such damages include, but are not limited to, loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchaser's time, the claims of third parties, including customers, and injury to property. The laws of some jurisdictions limit or do not allow the disclaimer of consequential damages. If the laws of such a jurisdiction apply to any claim by or against DSC, the limitations and disclaimers contained herein shall be to the greatest extent permitted by law. Some states do not allow the exclusion or limitation of incidental or consequential damages, so that the above may not apply to you.

Disclaimer of Warranties

This warranty contains the entire warranty and shall be in lieu of any and all other warranties, whether expressed or implied (including all implied warranties of merchantability or fitness for a particular purpose) and of all other obligations or liabilities on the part of Digital Security Controls. Digital Security Controls neither assumes responsibility for, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product. This disclaimer of warranties and limited warranty are governed by the laws of the province of Ontario, Canada.

WARNING: Digital Security Controls recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.

Out of Warranty Repairs

Digital Security Controls will at its option repair or replace out-of-warranty products which are returned to its factory according to the following conditions. Anyone returning goods to Digital Security Controls must first obtain an authorization number. Digital Security Controls will not accept any shipment whatsoever for which prior authorization has not been obtained.

Products which Digital Security Controls determines to be repairable will be repaired and returned. A set fee which Digital Security Controls has predetermined and which may be revised from time to time, will be charged for each unit repaired.

Products which Digital Security Controls determines not to be repairable will be replaced by the nearest equivalent product available at that time. The current market price of the replacement product will be charged for each replacement unit.

have been improperly installed or positioned. Smoke may not be able to reach the smoke detectors, such as when the fire is in a chimney, walls or roof, or on the other side of closed doors. Smoke detectors may not detect smoke from fires on another level of the residence or building.

Every fire is different in the amount of smoke produced and the rate of burning. Smoke detectors cannot sense all types of fires equally well. Smoke detectors may not provide timely warning of fires caused by carelessness or safety hazards such as smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches or arson.

Even if the smoke detector operates as intended, there may be circumstances when there is insufficient warning to allow all occupants to escape in time to avoid injury or death.

• Motion Detectors

Motion detectors can only detect motion within the designated areas as shown in their respective installation instructions. They cannot discriminate between intruders and intended occupants. Motion detectors do not provide volumetric area protection. They have multiple beams of detection and motion can only be detected in unobstructed areas covered by these beams. They cannot detect motion which occurs behind walls, ceilings, floor, closed doors, glass partitions, glass doors or windows. Any type of tampering whether intentional or unintentional such as masking, painting, or spraying of any material on the lenses, mirrors, windows or any other part of the detection system will impair its proper operation.

Passive infrared motion detectors operate by sensing changes in temperature. However their effectiveness can be reduced when the ambient temperature rises near or above body temperature or if there are intentional or unintentional sources of heat in or near the detection area. Some of these heat sources could be heaters, radiators, stoves, barbecues, fireplaces, sunlight, steam vents, lighting and so on.

• Warning Devices

Warning devices such as sirens, bells, horns, or strobes may not warn people or waken someone sleeping if there is an intervening wall or door. If warning devices are located on a different level of the residence or premise, then it is less likely that the occupants will be alerted or awakened. Audible warning devices may be interfered with by other noise sources such as stereos, radios, televisions, air conditioners or other appliances, or passing traffic. Audible warning devices, however loud, may not be heard by a hearing-impaired person.

• Telephone Lines

If telephone lines are used to transmit alarms, they may be out of service or busy for certain periods of time. Also an intruder may cut the telephone line or defeat its operation by more sophisticated means which may be difficult to detect.

• Insufficient Time

There may be circumstances when the system will operate as intended, yet the occupants will not be protected from the emergency due to their inability to respond to the warnings in a timely manner. If the system is monitored, the response may not occur in time to protect the occupants or their belongings.

• Component Failure

Although every effort has been made to make this system as reliable as possible, the system may fail to function as intended due to the failure of a component.

• Inadequate Testing

Most problems that would prevent an alarm system from operating as intended can be found by regular testing and maintenance. The complete system should be tested weekly and immediately after a break-in, an attempted break-in, a fire, a storm, an earthquake, an accident, or any kind of construction activity inside or outside the premises. The testing should include all sensing devices, keypads, consoles, alarm indicating devices and any other operational devices that are part of the system.

• Security and Insurance

Regardless of its capabilities, an alarm system is not a substitute for property or life insurance. An alarm system also is not a substitute for property owners, renters, or other occupants to act prudently to prevent or minimize the harmful effects of an emergency situation.

photographs, and text incorporated into the SOFTWARE PRODUCT), the accompanying printed materials, and any copies of the SOFTWARE PRODUCT, are owned by DSC or its suppliers. You may not copy the printed materials accompanying the SOFTWARE PRODUCT. All title and intellectual property rights in and to the content which may be accessed through use of the SOFTWARE PRODUCT are the property of the respective content owner and may be protected by applicable copyright or other intellectual property laws and treaties. This EULA grants You no rights to use such content. All rights not expressly granted under this EULA are reserved by DSC and its suppliers.

4. EXPORT RESTRICTIONS - You agree that You will not export or re-export the SOFTWARE PRODUCT to any country, person, or entity subject to Canadian export restrictions.

5. CHOICE OF LAW - This Software License Agreement is governed by the laws of the Province of Ontario, Canada.

6. ARBITRATION - All disputes arising in connection with this Agreement shall be determined by final and binding arbitration in accordance with the Arbitration Act, and the parties agree to be bound by the arbitrator's decision. The place of arbitration shall be Toronto, Canada, and the installation manual of the arbitration shall be English.

7. LIMITED WARRANTY

(a) NO WARRANTY - DSC PROVIDES THE SOFTWARE "AS IS" WITHOUT WARRANTY. DSC DOES NOT WARRANT THAT THE SOFTWARE WILL MEET YOUR REQUIREMENTS OR THAT OPERATION OF THE SOFTWARE WILL BE UNINTERRUPTED OR ERROR-FREE.

(b) CHANGES IN OPERATING ENVIRONMENT - DSC shall not be responsible for problems caused by changes in the operating characteristics of the HARDWARE, or for problems in the interaction of the SOFTWARE PRODUCT with non-DSC SOFTWARE or HARDWARE PRODUCTS.

(c) LIMITATION OF LIABILITY; WARRANTY REFLECTS ALLOCATION OF RISK - IN ANY EVENT, IF ANY STATUTE IMPLIES WARRANTIES OR CONDITIONS NOT STATED IN THIS LICENSE AGREEMENT, DSC'S ENTIRE LIABILITY UNDER ANY PROVISION OF THIS LICENSE AGREEMENT SHALL BE LIMITED TO THE GREATER OF THE AMOUNT ACTUALLY PAID BY YOU TO LICENSE THE SOFTWARE PRODUCT AND FIVE CANADIAN DOLLARS (CAD\$5.00) BECAUSE SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

(d) DISCLAIMER OF WARRANTIES - THIS WARRANTY CONTAINS THE ENTIRE WARRANTY AND SHALL BE IN LIEU OF ANY AND ALL OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED (INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) AND OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF DSC. DSC MAKES NO OTHER WARRANTIES. DSC NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON PURPORTING TO ACT ON ITS BEHALF TO MODIFY OR TO CHANGE THIS WARRANTY, NOR TO ASSUME FOR IT ANY OTHER WARRANTY OR LIABILITY CONCERNING THIS SOFTWARE PRODUCT.

(e) EXCLUSIVE REMEDY AND LIMITATION OF WARRANTY - UNDER NO CIRCUMSTANCES SHALL DSC BE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES BASED UPON BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR ANY OTHER LEGAL THEORY. SUCH DAMAGES INCLUDE, BUT ARE NOT LIMITED TO, LOSS OF PROFITS, LOSS OF THE SOFTWARE PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF SUBSTITUTE OR REPLACEMENT EQUIPMENT, FACILITIES OR SERVICES, DOWN TIME, PURCHASERS TIME, THE CLAIMS OF THIRD PARTIES, INCLUDING CUSTOMERS, AND INJURY TO PROPERTY.

WARNING: DSC recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this SOFTWARE PRODUCT to fail to perform as expected.

1.1.1 FCC Compliance Statement

CAUTION: Changes or modifications not expressly approved by Digital Security Controls could void your authority to use this equipment.

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 any 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 the alarm control & 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.

1.1.2 IC Statement

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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.

This Class B digital apparatus meets all requirements of the Canadian interference-causing equipment regulations.

Cet appareil numérique de la Classe B respecte toutes les exigences de règlement sur le matériel brouilleur du Canada.

IC:160A-HS2HOST9.

The term 'IC:' before the radio certification number only signifies that Industry Canada technical specifications were met.



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

(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 laitteiden 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 rilevanti relative alla Direttiva 1999/05/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/EC.

(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.

The Model HSM2HOST8 Wireless Transceiver has been certified by Telefication according to EN50131-1:2006 + A1:2009 and EN50131-3:2009, for Grade 2, Class II.

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