

# DSC

*A Tyco International Company*

## 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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## Specifications and Features

- Current Draw: 60 mA
- Frequency: 433MHz (HSM2HOST4), 868MHz(HSM2HOST8), 915MHz (HSM2HOST9)
- Zones - can receive signals from up to 128 wireless zones, plus 16 zones for wireless keypads. Also supports up to 32 wireless keys
- Supervisory - programmable supervisory window
- Location:
  - can be wired up to 1000 ft. / 230 m from the main panel with 18 AWG wire
  - connects to Corbus
- Compatibility: The HSM2HOST is used with the HS2016/032/064/128 alarm panel
- Operating temperature: 0°C to +49°C (32-122°F)
- Relative humidity: 93% non-condensing
- Separate, built-in wall and case tamperers

**NOTE:** For UL/ULC Commercial Burglary and Residential Fire applications, the supervisory window must be set to 4 hours. For Residential Burglary only applications, the supervisory window can be set to 24 hours.

## Compatible Wireless Devices

Please refer to the instruction sheets of the following devices for more information. The HSM2HOSTx (x=4/8/9) can receive signals from the following devices:

**Alarm Panel:**

HSM2016/32/64/128

**Wireless Key:**

PG4939/8939/9939

PG4929/8929/9929

PG4938/8938/9938

PG4949/8949/9949

**Door/Window Contact:**

PG4945/8945/9945

PG4975/8975/9975

**Glassbreak Detector:**

PG4912/8912/9912

**Motion Detector:**

PG4924/8924/9924

PG4934/PG8934/PG9934

PG4934P/PG8934P/PG9934P

PG4904/8904/9904

PG4904P/8904P/9904P

PG4974P/8974P/9974P

PG4984P/8984P/9984P

PG4994/8994/9994

**Smoke Detector:**

PG4926/8926/9926

PG4916/8916/9916

**CO Detector:**

PG4913/8913/9913

**Siren:**

PG4901/8901/9901

PG4911/8911/9911

**Temperature Detector:**

PG4905/8905/9905

**Natural Gas Detector:**

PG4923/8923/9923

**Shock Sensor:**

PG4935/8935/9935

**Flood Sensor:**

PG4985/8985/9985

**Repeater:**

PG4920/8920/9920

**Keypad:**

<sup>UL</sup> Only these UL/ULC listed devices are to be used with UL/ULC listed systems.

\*\* Available in North America, South America and New Zealand only.

\*\*\* For Residential Fire installations, two PG9920 must be used.

Note: This manual covers models HSM2HOST9 (UL/ULC listed), HSM2HOST4 and HSM2HOST8. The reference to HSM2HOST in this manual covers all three variants unless stated differently.

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## 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 receiver to the building structure before applying power to the alarm controller.

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

HSM2HOST9 is UL listed for Residential Fire, Residential Burglary and Commercial Burglary applications in accordance with the following standards:

UL985 Household Fire Warning System Units

UL1023 Household Burglar-Alarm System Units

UL1610 Central Station Burglar-Alarm Units

# 1. Introduction

The HSM2HOST two-way wireless transceiver 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.

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.

## 1.1 Installation Process Overview

To install and set up the HSM2HOST and wireless devices:

1. Temporarily mount and wire the HSM2HOST module (section 2.1.2 on page 2).
2. Enroll the HSM2HOST and first Wireless keypad (section 2.1.4 on page 2).
3. Check the location for RF interference levels (section Figure: 2.1 on page 2).
4. Enroll wireless devices (section 2.4.4 on page 4).
5. Complete zone and other programming on the system (section 2.5.1 on page 6).
6. Test the placement of all the wireless devices (section 2.5.7 on page 8).
7. Permanently mount the HSM2HOST and wireless devices (section 2.3 on page 3).

## 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 Upgrade:	Slow flashing = upgrade in progress Rapid flashing = upgrade failed Very rapid flashing = upgrade corrupt, contact distributor
Trouble Condition:	<ul style="list-style-type: none"><li>• No trouble: 1 rapid flash every 10 seconds.</li></ul> If troubles are present, a series of flashes occur every 2 seconds. Each series of flashes indicate troubles as follows: <ul style="list-style-type: none"><li>• 1 flash: Module not enrolled</li><li>• 2 flashes: Loss of contact with module for over 60 seconds</li><li>• 3 flashes: Corbus low voltage</li><li>• 7 flashes: Wireless network synchronization</li><li>• 8 flashes: RF interference (jam condition)</li></ul>
Module Confirmation:	On solid during module confirmation process.
Green LED	Operation
Placement Test	On steady when location is bad. Off when location is good.

### Tamper

The HSM2HOST has separate built-in wall and case tampers. The tampers are disabled by default on the NA version (enabled on EU version). Section [804][510] option 3 enables or disables the tampers.

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 Burglary applications.

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## 2.1 Setup & Wiring

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

### 2.1.1 In the Box

Check that the following parts are in the package:

- HSM2HOST module
- Mounting hardware
- Installation manual

### 2.1.2 Choose a Mounting Location

**NOTE:** Permanently mount the HSM2HOST receiver and wireless devices AFTER placement testing each device (section 2.3 on page 3).

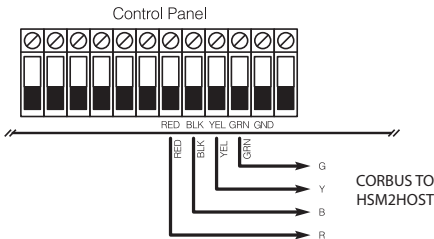
Find a place that is

- 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.

### 2.1.3 Connect the HSM2HOST

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

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: 2.1 Wiring**

### 2.1.4 Enroll The HSM2HOST

The HSM2HOST can be enrolled in one of three ways:

#### At initial power-up of the alarm panel

When the alarm panel is powered up for the first time, a two-minute window is provided to enroll the first keypad or the HSM2HOST.

To enroll the HSM2HOST:

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 enrolled on the alarm panel.

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## Full enrollment

To enroll the HSM2HOST after initial startup of the alarm panel:

1. Enter the following Installer Programming section:  
[750] (Enroll Module) > [000] (Auto Enroll All Modules)  
When prompted, activate the HSM2HOST by pressing the tamper button.
2. Press [\*]. The module is enrolled into the next available slot for the device.
3. Continue the above procedure until all modules are enrolled.

## Pre-enrollment

Pre-enrollment consists of two parts:

1) Prior to installation, program the electronic serial number (ESN) of all modules and select configuration options.

2) At the installation site, activate the module.

To pre-enroll the HSM2HOST or another module:

1. Enter the following Installer Programming section:  
[750] (Enroll Module) > [001] (Modules)
2. Select a module type using the scroll keys or by entering the appropriate hotkey.

**Table 2-1 Available Modules**

Hotkey	Module Type
001	Keypads
002	Zone Expander
003	Output Module
006	HSM2Host
008	Audio Verification Module
009	Power Supply 1A

3. When prompted, key in the serial number found on the back of the device. The module is enrolled.
4. At the installation site, activate each module. The alarm panel does not have to be in Installer Programming mode.

## 2.2 Test HSM2HOST Location for RF Interference

The HSM2HOST performs best in locations where RF interference is minimal. To find a suitable mounting location:

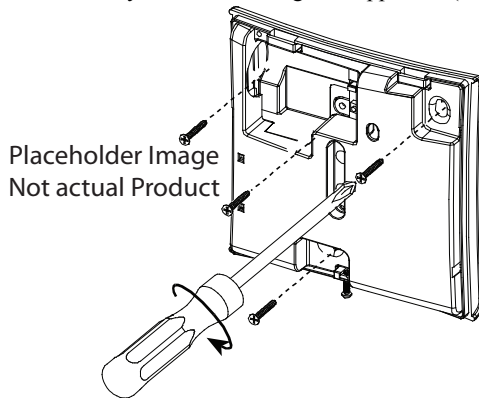
- With the alarm panel powered up and the HSM2HOST enrolled, observe the status of the green LED. If the LED is on, interference levels are high and a new mounting location should be found. If the green LED is **flashing or** off, interference is low and the location is good.

## 2.3 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 supplied 3 (three) screws.



**Figure: 2.2 Mounting the HSM2HOST**

## 2.4 Other Options

The following actions may be performed on the HSM2HOST, as well as other optional modules.

### 2.4.1 [751] Delete Module

To remove a module from the alarm panel:

1. Enter the following Installer Programming section:  
[751] (Delete Module) > Select module type: see Table 2-1 on page 3.
2. When prompted, press [\*]. The module is deleted from the system.

### 2.4.2 [752] Confirm Module

This feature is used to confirm that a module is operational and also to help identify a specific module when more than one of the same type is enrolled.

To confirm a module:

1. Enter the following Installer Programming section:  
[752] (Confirm Module) > Select module type: see Table 2-1 on page 3.
2. When prompted, press [\*]. The module serial number is displayed on the keypad and the red LED on the module flashes.
3. Press [#] to exit.

### 2.4.3 [753] Module Labels

To add a label to a module:

1. Enter the following Installer Programming section:  
[753] (Module Labels) > Select module type: see Table 2-1 on page 3.
2. When prompted, key in a label to identify the module.
3. Press [#] to label another module or [#][#] to exit.

### 2.4.4 [804] Enroll Wireless Devices

Once the HSM2HOST is installed and enrolled on the alarm panel, wireless devices can be enrolled using one of the following methods:

#### **Auto enroll (use to enroll devices during installation):**

1. Enter the following Installer Programming section:  
[804] (Wireless Programming) > [000] (Add Wireless Devices)
2. Press [\*]. When prompted, activate the device (see device installation sheet).

The alarm panel determines the type of device being enrolled and presents the appropriate programming options.

**Table 2-2 Wireless Device Options**

Device Type	Programming Options
Zone	(01) Zone type (02) Partition assignment (03) Zone label
Wireless key	(01) 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. Repeat the process described above until all wireless devices are enrolled.

**NOTE:** Configuration options for wireless devices are set using [804]>[201] Modify Device.

### Pre-enroll (use to enroll devices prior to installation)

Part 1:

1. Enter the following Installer Programming section:  
[804] (Wireless Programming) > [000] (Add Wireless Devices)
2. Press [\*]. When prompted, enter the device ESN.  
The alarm panel determines the type of device being enrolled and presents the appropriate programming options (see Table 2-2).
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 pre-enroll the next device. Repeat the process described above until all wireless devices are pre-enrolled.

Part 2:

Once at the installation site, activate the device to complete enrollment. The alarm panel does not have to be in Installer Programming mode.

## 2.4.5 [101]-[104] Delete Wireless Devices

To delete wireless devices:

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

**Table 2-3 Module Label Sub-Sections**

Sub-Section	Description
101	Delete wireless zone devices
102	Delete Wireless key
103	Delete sirens
104	Delete repeaters

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.

## 2.5 Wireless Device Programming

The following wireless device programming options are available through section [804].

### 2.5.1 [201]-[204] Modify Wireless Device Setup Options

To modify wireless device setup options:

1. Enter Installer Programming section [804] (Wireless Programming) then navigate to one of the following sub-sections using the scroll keys or by entering a hotkey:

**Table 2-4 Modify Wireless Device Sub-Sections**

Sub-Section	Description
201	Modify wireless zone devices
202	Modify wireless keys
203	Modify sirens

2. Select a device to modify using the scroll keys or go directly to a specific device by entering a hotkey.
3. Press [\*] to select the device.
4. Press [#] to navigate to the Device Toggles screen then press [\*]. The first available option for the selected device is displayed.
5. Modify available device programming either by entering the hotkey or using the scroll buttons.
6. Press [#] to move to the next configuration option. Once the last option has been reached, pressing [#] exits the programming section.  
See section Appendix 1: on page 20 for a complete list of available wireless configuration options.

### 2.5.2 [301]-[304] 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] (Wireless Programming) then select one of the following sub-sections:

**Table 2-5 Replace Device Sub-Sections**

Sub-Section	Description
301	Replace wireless zone devices
302	Replace wireless keys
303	Replace sirens
304	Replace repeater

2. Press [\*] to select a sub-section. A list of available options is displayed.
3. Press [\*] to select a sub-section.
4. Select a device to replace using the scroll keys or go directly to a specific device by entering a hotkey.
5. Press [\*]. When prompted, activate the device (full enrollment) or enter the device ID (pre-enrollment). A message is displayed confirming enrollment.

## 2.5.3 [401]-[410] Wireless Device Defaults

Wireless device default parameters used during enrollment can be changed at any time. Once default values are changed, any new devices enrolled inherit the modified default values. The defaults of devices already enrolled are not changed.

To modify wireless device defaults:

1. Enter [\*]>[8]>[804](Wireless Programming) then navigate to one of the following sub-sections using the scroll keys or by entering a hotkey:

**Table 2-6 Device Type Sub-Sections**

Sub-Section	Description
401	Contacts
402	Motion sensors
403	Glassbreak detectors
404	Smoke detectors
405	CO detectors
406	Gas detectors
407	Flood detectors
408	Temperature detectors
409	Wireless keys
410	Sirens

2. Press [\*] to select a sub-section. A list of available options is displayed.
3. Navigate the list of options using the scroll keys or by entering a hotkey, then press [\*] to select. The first programmable default is displayed.
4. Press [\*] to select a default or to toggle it on or off.
5. Press [#] to move to the next available default. At the last default, pressing [#] returns to the previous list of options.

See section Appendix 1: on page 20 for a complete list of available wireless configuration options.

## 2.5.4 [501] 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] (Wireless Programming)>[501] (Jam Detect).
2. Select one of the following options by scrolling or entering the hotkey:

00	Enabled/Disabled	Jamming detection and reporting is enabled/disabled
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.

## 2.5.5 [502] 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.

To program the Wireless Supervisory Window:

1. Enter Installer Programming section [804] (Wireless Programming)>[502] (Wireless Supervisory Window).
2. Select one of the following options by scrolling or entering the hotkey:

**Table 2-7 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.

## 2.5.6 [510] Wireless Option 1

To program wireless options:

1. Enter Installer Programming section [804] (Wireless Programming)>[510] (Missing Report).
2. Select one of the following options by scrolling or entering the hotkey:

**Table 2-8 Wireless Options**

01	RF Delinquency	On: the system cannot be armed if a wireless supervisory trouble exists. 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: device tampers are logged and reported. Off: device tampers are not logged or reported.
04	200-second Fire Supervisory	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 502.

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

## 2.5.7 [600]-[604]Testing Wireless Devices

Wireless devices can be tested to verify RF signal status. Test all devices together or by individual device type. The following test modes are available:

**Table 2-9 Wireless Device Test Modes**

600	Test all devices	All enrolled wireless devices are tested automatically in the following order: repeaters, sirens, detectors, key-pads. View test results in section [610] Show All Devices.
601	Test wireless zones	Test wireless devices individually by zone.

602	Test wireless keys	Test individual wireless keys. Once in this section, press a button on the wireless key to begin the test.
603	Test sirens	Test each enrolled wireless siren.
604	Test repeaters	Test each enrolled wireless repeater.

Two test results are provided:

- 24-hour: Average signal status results received during a 24-hour period.
- Now: Signal status results of the current test.

The following status indicators may be displayed:

**Table 2-10 Wireless Device Status Indications**

Strong	Strong signal strength
Good	Good signal strength
Poor	Poor signal strength
1-Way	The device is operating in 1-way mode only. The alarm panel cannot configure or control the device
Not Test	Displayed as the Now result if no test was performed.
None	Always displayed as the 24-hour result when testing wireless keys.
Early	Displayed as the 24-hour result when the panel has been powered up for less than 24 hours.

### [610] Show All Devices

The results of [600] Test all devices are displayed in this section. This section is only available if a test has been completed.

### [611] Show RF Problems

Similar to section [610] Show All Devices, except that only problematic test results are displayed (i.e., Poor, 1-way, Not Test, Early).

## 2.5.8 [521]-[552] Programming Wireless Keys

To program wireless key buttons:

1. Enter Installer Programming section [804] (Wireless Programming)>[521]-[552] (Wireless Key Buttons).
2. Select a wireless key to program (001-032) using the scroll keys or by entering a hotkey.
3. Select one of the following options by scrolling or entering the hotkey:

**Table 2-11 Wireless Key Button Programming Options**

00	Disabled	14	Global Disarm	34	User Programming
01	Stay Arm	17	Comm. Output 1	35	User Functions
02	Away Arm	18	Comm. Output 2	36	Reactivate Stay/ Away/Night
03	[*][9] No Entry	19	Comm. Output 3	37	Time/Date Prog.
04	Instant Stay Arm	20	Comm. Output 4	39	Trouble Display
05	Night Arm	27	Bypass Mode	40	Alarm Memory
07	Disarm	28	Bypass Recall	98	Aux. Alarm
09	Quick Exit	29	Bypass Group Recall	99	Panic
11	Away No Entry	30	Quick Bypass		
12	Global Stay Arm	32	Chime On/Off		

13	Global Away Arm	33	System Test			
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4. Press [\*] to accept the selection.  
Press [#] to exit the section.

## 2.5.9 [700] Video Verification Programming

The central monitoring station can access video images from motion cameras to verify Burglar, Fire or Panic alarms. Video can be transmitted in one of two ways:

- Video on demand: After receiving an alarm, the monitoring station can request video verification.
- Video on alarm (default): Video is automatically transmitted to the monitoring station when an alarm event occurs.

The following video verification options can be selected:

**Table 2-12 Video Verification Programming Options**

View on Demand	<ul style="list-style-type: none"> <li>• Disable (Video on Alarm mode)</li> <li>• All Arming Modes</li> <li>• Away Arming Only</li> <li>• Stay Arming Only</li> <li>• Stay and Away Arming</li> <li>• Disarm and Away Arming</li> <li>• Disarm and Stay Arming</li> <li>• Disarm Only</li> <li>• View Time Window</li> <li>• View Other Alarms</li> </ul>
View Time Window (video on demand)	<ul style="list-style-type: none"> <li>• Always on</li> <li>• Alarm + 5 minutes</li> <li>• Alarm + 15 minutes</li> <li>• Alarm + 1 hour</li> </ul>
View Other Alarms (non-burglar)	<ul style="list-style-type: none"> <li>• Fire</li> <li>• Duress code</li> <li>• Emergency</li> <li>• Panic</li> </ul>

## 2.5.10 [997] View Module Information

This section is used to display the model, hardware revision and software version of the HSM2HOST.

## 2.5.11 [999] Reset to Factory Defaults

Selecting this option resets all module programming to factory settings. Panel and other module options are retained.

### 3. Programming Worksheets

This section is provided as a reference to available programming options and may also be used to record custom settings. All programming sections below are accessed through Installer Programming ([\*][8]).

<b>750</b>	Enroll Module	000 - Auto Enroll
		001 - Enroll Modules
<b>751</b>	Delete Module	001 - Delete Keypads
		002 - Delete Zone Expander
		003 - Delete Output Expander
		006 - Delete HSM2HOST
		008 - Delete Audio Verification
		009 - Delete Power Supply
<b>752</b>	Confirm Module	001 - Confirm Keypads
		002 - Confirm Zone Expander
		003 - Confirm Output Expander
		006 - Confirm HSM2HOST
		008 - Confirm Audio Verification
		009 - Confirm Power Supply

#### 753 Module Labels

<b>001</b>	Keypad Labels (1 x 14 Characters)	
	001:	009:
	002:	010:
	003:	011:
	004:	012:
	005:	013:
	006:	014:
	007:	015:
	008:	016:
<b>002</b>	Zone Expander Labels (1 x 14 Characters)	
	001:	009:
	002:	010:
	003:	011:
	004:	012:
	005:	013:
	006:	014:
	007:	015:
	008:	016:
<b>003</b>	Output Expander Labels (1 x 14 Characters)	
	01:	
<b>006</b>	HSM2HOST Label (1 x 14 Characters)	
	01:	
<b>008</b>	HSM2955 Audio Verification Label (1 x 14 Characters)	
	01:	

<b>009</b>	HSM2300 Power Supply Label (1 x 14 Characters)	
	01:	
<b>020</b>	Siren Label (1 x 14 Characters)	
	01:	
<b>021</b>	Repeater Label (1 x 14 Characters)	
	01:	

**[802] Audio Programming**  
(See HSM2955 Installation Manual)

**[804] Wireless Programming**

<b>000</b>	Enroll Wireless Device	
	01 - Zone 02 - Wireless Key 03 - Siren 04 - Repeater	
<b>101</b>	Delete Devices	
<b>102</b>	Delete Wireless Keys	
<b>103</b>	Delete Sirens	
<b>104</b>	Delete Repeaters	

<b>201</b>	Modify Device	
	Zone Type:	
	Partition Assignment:	
	Device Toggles (contacts):	<input type="checkbox"/> Alarm LED <input type="checkbox"/> Reed Switch
	Zone EOL:	<input type="checkbox"/> Disabled <input type="checkbox"/> Normally Open <input type="checkbox"/> Normally Closed <input type="checkbox"/> Single EOL
	Device Toggles (Motion/PIR):	<input type="checkbox"/> Alarm LED <input type="checkbox"/> Event Counter <input type="checkbox"/> Black & White/Color <input type="checkbox"/> Image Resolution <input type="checkbox"/> Image Quality <input type="checkbox"/> Microphone <input type="checkbox"/> AC Power
	Disarm Activity:	<input type="checkbox"/> Not Active <input type="checkbox"/> Yes-No Delay <input type="checkbox"/> Yes-5 Second Delay <input type="checkbox"/> Yes-15 Second Delay <input type="checkbox"/> Yes-30 Second Delay <input type="checkbox"/> Yes-1 Minute Delay <input type="checkbox"/> Yes-10 Minute Delay <input type="checkbox"/> Yes-60 Minute Delay
	Image Brightness:	<input type="checkbox"/> Image Bright -3 <input type="checkbox"/> Image Bright -2

	<input type="checkbox"/>	Image Bright -1
	<input type="checkbox"/>	Image Bright 0
	<input type="checkbox"/>	Image Bright +1
	<input type="checkbox"/>	Image Bright +2
	<input type="checkbox"/>	Image Bright +3
Image Contrast:	<input type="checkbox"/>	Image Contrast -3
	<input type="checkbox"/>	Image Contrast -2
	<input type="checkbox"/>	Image Contrast -1
	<input type="checkbox"/>	Image Contrast 0
	<input type="checkbox"/>	Image Contrast +1
	<input type="checkbox"/>	Image Contrast +2
	<input type="checkbox"/>	Image Contrast +3
Detection Range (Microwave + non-microwave Motion)	<input type="checkbox"/>	Low Sensitivity
	<input type="checkbox"/>	Mid Sensitivity
	<input type="checkbox"/>	High Sensitivity
Detection Sensitivity	<input type="checkbox"/>	Low Sensitivity
	<input type="checkbox"/>	Mid Sensitivity
	<input type="checkbox"/>	High Sensitivity
	<input type="checkbox"/>	UL Standard
Unset Activity	<input type="checkbox"/>	Unset Activity Time
Set Activity	<input type="checkbox"/>	Set Activity Time
24Hr or Night	<input type="checkbox"/>	Set Activity Time
Glassbreak		
Smoke	<input type="checkbox"/>	Burglary Siren
	<input type="checkbox"/>	Fire Siren
	<input type="checkbox"/>	Gas/CO Siren
	<input type="checkbox"/>	Flood Siren
CO		
Gas		
Flood	<input type="checkbox"/>	Alarm LED
Temperature	<input type="checkbox"/>	Alarm LED
	<input type="checkbox"/>	Temperature °C
	<input type="checkbox"/>	Very Hot
	<input type="checkbox"/>	Hot
	<input type="checkbox"/>	Cold
	<input type="checkbox"/>	Very Cold
	<input type="checkbox"/>	Freezing
	<input type="checkbox"/>	Freezer
Zone Label		
001-128 (See User Manual)		



<b>202</b>	Wireless Key	
	Available programming options:	
	00- Disabled	20- Comm. Output 4
	01- Stay Arm	27- Bypass Mode
	02- Away Arm	28- Bypass Recall
03- [*][9] No Entry	29- Bypass Group Recall	
04- Instant Stay Arm	30- Quick Bypass	
05- Night Arm	32- Chime On/Off	
07- Disarm	33- System Test	
09- Quick Exit	34- User Programming	
11- Away No Entry	35- User Functions	
12- Global Stay Arm	36- Reactivate Stay/Away/Night	
13- Global Away Arm	37- Time/Date Prog.	
14- Global Disarm	39- Trouble Display	
17- Comm. Output 1	10- Alarm Memory	
18- Comm. Output 2	98- Aux. Alarm	
19- Comm. Output 3	99- Panic	
	01: 05: 09: 13: 17: 21: 25: 29:	
	02: 06: 10: 14: 18: 22: 26: 30:	
	03: 07: 11: 15: 19: 23: 27: 31:	
	04: 08: 12: 16: 20: 24: 28: 32:	
<b>203</b>	Modify Siren	
	Device Toggles	<input type="checkbox"/> Auto Tmp Alarm
		<input type="checkbox"/> AC Power
		<input type="checkbox"/> Smash Alarm
	Strobe Alarm	<input type="checkbox"/> Disabled
		<input type="checkbox"/> Timer Limited
		<input type="checkbox"/> Until Disarmed
	Exit-Entry Beeps	<input type="checkbox"/> Disabled
		<input type="checkbox"/> Enabled
		<input type="checkbox"/> Disabled Stay
	Squawk	<input type="checkbox"/> Disabled
		<input type="checkbox"/> Sounder Only
		<input type="checkbox"/> Strobe Only
		<input type="checkbox"/> Sounder + Strobe
	Sounder Volume	<input type="checkbox"/> Low
	<input type="checkbox"/> Medium	
	<input type="checkbox"/> High	
<b>301</b>	Replace Device	301 - Replace Zone Device
		302 - Replace Wireless Key
		303 - Replace Siren
		304 - Replace Repeater
<b>401</b>	Default Set Contact	
	Device Toggles	<input type="checkbox"/> Alarm LED
<b>402</b>	Set Motion Default	<input type="checkbox"/> Alarm LED
		<input type="checkbox"/> Event Counter
		<input type="checkbox"/> Black & White/Color
		<input type="checkbox"/> Image Resolution
		<input type="checkbox"/> Image Quality

		<input type="checkbox"/>	Microphone
		<input type="checkbox"/>	AC Power
	Disarm Activity:	<input type="checkbox"/>	Not Active
		<input type="checkbox"/>	Yes-No Delay
		<input type="checkbox"/>	Yes-5 Second Delay
		<input type="checkbox"/>	Yes-15 Second Delay
		<input type="checkbox"/>	Yes-30 Second Delay
		<input type="checkbox"/>	Yes-1 Minute Delay
		<input type="checkbox"/>	Yes-10 Minute Delay
		<input type="checkbox"/>	Yes-60 Minute Delay
	Image Brightness:	<input type="checkbox"/>	Image Bright -3
		<input type="checkbox"/>	Image Bright -2
		<input type="checkbox"/>	Image Bright -1
		<input type="checkbox"/>	Image Bright 0
		<input type="checkbox"/>	Image Bright +1
		<input type="checkbox"/>	Image Bright +2
		<input type="checkbox"/>	Image Bright +3
	Image Contrast:	<input type="checkbox"/>	Image Contrast -3
		<input type="checkbox"/>	Image Contrast -2
		<input type="checkbox"/>	Image Contrast -1
		<input type="checkbox"/>	Image Contrast 0
		<input type="checkbox"/>	Image Contrast +1
		<input type="checkbox"/>	Image Contrast +2
		<input type="checkbox"/>	Image Contrast +3
	Detection Range (Microwave + non-microwave Motion)	<input type="checkbox"/>	Low Sensitivity
		<input type="checkbox"/>	Mid Sensitivity
		<input type="checkbox"/>	High Sensitivity
	Detection Sensitivity	<input type="checkbox"/>	Low Sensitivity
		<input type="checkbox"/>	Mid Sensitivity
		<input type="checkbox"/>	High Sensitivity
		<input type="checkbox"/>	UL Standard
	Unset Activity	<input type="checkbox"/>	Unset Activity Time
	Set Activity	<input type="checkbox"/>	Set Activity Time
	24Hr or Night	<input type="checkbox"/>	Set Activity Time
<b>403</b>	<b>Set Glassbreak Default</b>		
<b>404</b>	<b>Set Smoke Default</b>	<input type="checkbox"/>	Burglary Siren
		<input type="checkbox"/>	Fire Siren
		<input type="checkbox"/>	Gas/CO Siren
		<input type="checkbox"/>	Flood Siren
<b>405</b>	<b>Set CO Default</b>		
<b>406</b>	<b>Set Gas Default</b>		
<b>407</b>	<b>Set Flood Default</b>	<input type="checkbox"/>	Alarm LED
<b>408</b>	<b>Set Temperature Default</b>	<input type="checkbox"/>	Alarm LED
		<input type="checkbox"/>	Temperature °C
		<input type="checkbox"/>	Very Hot

		<input type="checkbox"/>	Hot					
		<input type="checkbox"/>	Cold					
		<input type="checkbox"/>	Very Cold					
		<input type="checkbox"/>	Freezing					
		<input type="checkbox"/>	Freezer					
<b>409</b>	Set Wireless Key Default (See section 521 for options)							
	01:	05:	09:	13:	17:	21:	25:	29:
	02:	06:	10:	14:	18:	22:	26:	30:
	03:	07:	11:	15:	19:	23:	27:	31:
	04:	08:	12:	16:	20:	24:	28:	32:
<b>410</b>	Set Siren Default							
	Device Toggles		<input type="checkbox"/>	Auto Tmp Alarm				
			<input type="checkbox"/>	AC Power				
			<input type="checkbox"/>	Smash Alarm				
	Strobe Alarm		<input type="checkbox"/>	Disabled				
			<input type="checkbox"/>	Timer Limited				
			<input type="checkbox"/>	Until Disarmed				
	Exit-Entry Beeps		<input type="checkbox"/>	Disabled				
			<input type="checkbox"/>	Enabled				
			<input type="checkbox"/>	Disabled Stay				
	Squawk		<input type="checkbox"/>	Disabled				
			<input type="checkbox"/>	Sounder Only				
			<input type="checkbox"/>	Strobe Only				
			<input type="checkbox"/>	Sounder + Strobe				
	Sounder Volume		<input type="checkbox"/>	Low				
			<input type="checkbox"/>	Medium				
			<input type="checkbox"/>	High				
<b>501</b>	Jam Detect							
			<input type="checkbox"/>	Disabled				
			<input type="checkbox"/>	UL 20/20				
			<input type="checkbox"/>	EN 30/60				
			<input type="checkbox"/>	Class 6 (30/60)				
<b>502</b>	Missing Report							
			<input type="checkbox"/>	Disabled				
			<input type="checkbox"/>	After 1 Hour				
			<input type="checkbox"/>	After 2 Hour				
			<input type="checkbox"/>	After 4 Hour				
			<input type="checkbox"/>	After 8 Hour				
			<input type="checkbox"/>	After 12 Hour				
			<input type="checkbox"/>	After 24 Hour				
<b>510</b>	Wireless Options 1							
			<input type="checkbox"/>	Not Ready				
			<input type="checkbox"/>	EN Standard				
			<input type="checkbox"/>	Wireless Tamper				
			<input type="checkbox"/>	200-Second Fire Supervisory				

<b>521-552</b>	Wireless Key Programming		
	Available programming options:		
	00- Disabled 01- Stay Arm 02- Away Arm 03- [*][9] No Entry 04- Instant Stay Arm 05- Night Arm 07- Disarm 09- Quick Exit 11- Away No Entry 12- Global Stay Arm 13- Global Away Arm 14- Global Disarm 17- Comm. Output 1 18- Comm. Output 2 19- Comm. Output 3		20- Comm. Output 4 27- Bypass Mode 28- Bypass Recall 29- Bypass Group Recall 30- Quick Bypass 32- Chime On/Off 33- System Test 34- User Programming 35- User Functions 36- Reactivate Stay/Away/Night 37- Time/Date Prog. 39- Trouble Display 10- Alarm Memory 98- Aux. Alarm 99- Panic
	521: 525: 529: 533:		537: 541: 545: 549:
	522: 526: 530: 534:		538: 542: 546: 550:
	523: 527: 531: 535:		539: 543: 547: 551:
524: 528: 532: 536:		540: 544: 548: 552:	
<b>600</b>	Test All Devices		
<b>601</b>	Test Wireless Zones		
<b>602</b>	Test Wireless Keys		
<b>603</b>	Test Sirens		
<b>604</b>	Test Repeaters		
<b>610</b>	Show All Devices		
<b>611</b>	Show RF Problems		
<b>700</b>	Motion Cameras (Video on Demand)		
	View on Demand	<input type="checkbox"/>	Disabled
		<input type="checkbox"/>	In All Modes
		<input type="checkbox"/>	Away Only
		<input type="checkbox"/>	Stay Only
		<input type="checkbox"/>	Stay and Away
		<input type="checkbox"/>	Disarm & Away
		<input type="checkbox"/>	Disarm & Home
		<input type="checkbox"/>	Disarmed Only
	View Time Window	<input type="checkbox"/>	Always
		<input type="checkbox"/>	Alarm + 5 Minutes
		<input type="checkbox"/>	Alarm + 15 Minutes
		<input type="checkbox"/>	Alarm + 1 Hour
	View Other Alarm	<input type="checkbox"/>	Fire
		<input type="checkbox"/>	Duress
		<input type="checkbox"/>	Medical
		<input type="checkbox"/>	Panic
<b>997</b>	Module Information		Model Name
			Software Version
			Hardware Version
<b>999</b>	Default HSM2HOST		

<b>8XX</b>	Keypad Programming		
	Keypad Partition Mask	<input type="checkbox"/>	Global Keypad
		<input type="checkbox"/>	Partition
	Function Key Programming:		
	01 - Null Key	16 - Local PGM Active	32 - Chime On/Off
	02 - Stay Arm	17 - Command Output 1	33 - System Test
	03 - No Entry Arm	18 - Command Output 2	34 - User Programming
	04 - Instant Stay Arm	19 - Command Output 3	35 - User Functions
	05 - Night Arm	20 - Command Output 4	36 - React Sty/Awy/Ng
	09 - Quick Exit	27 - Bypass Mode	37 - Time/Date Prog
	12 - Global Stay Arm	28 - Bypass Recall	39 - Trouble Display
	13 - Global Away Arm	29 - Bypass Group Recall	40 - Alarm Memory
	14 - Global Disarming	30 - Quick Bypass	XX - Partition XX Sel
	(01) Keypad I/O 1	<input type="checkbox"/>	Input:
			Output:
	(021) Keypad Option 1	<input type="checkbox"/>	01 - F Key Enabled
		<input type="checkbox"/>	02 - A Key Enabled
		<input type="checkbox"/>	03 - P Key Enabled
		<input type="checkbox"/>	04 - Display Code
	(22) Keypad Option 2	<input type="checkbox"/>	Local Clock
<input type="checkbox"/>		Clock 24-Hour	
<input type="checkbox"/>		Auto Alarm Memory Screen	
<input type="checkbox"/>		Language Select	
<input type="checkbox"/>		Power LED	
<input type="checkbox"/>		Power LED AC	
<input type="checkbox"/>		Alarm Dis Arm	
(023) Keypad Option 3	<input type="checkbox"/>	01 - Arm LED Power Save	
	<input type="checkbox"/>	07 - Local Temperature	
	<input type="checkbox"/>	08 - Low Temperature Warning	
(030) LCD Message:			
(031) LCD Message Duration (000-255):			
(41) Indoor Temperature		Temperature Zone (000-XXX):	
(042) Outdoor Temperature		Temperature Zone (000-XXX):	
(101) Zone X Door Chime	<input type="checkbox"/>	6 Beeps	
	<input type="checkbox"/>	Bing Bong	
	<input type="checkbox"/>	Ding Dong	
	<input type="checkbox"/>	Zone Name	
<b>899</b>	Template Programming		Template Code:
			Phone Number:
			System Account #:
			Partition 1 Account #:
			DLS Access Code:
			Entry Delay 1:
			Exit Delay:

<b>900</b>	System Info	
	00 - Alarm System	471 - Printer
	001 - Keypads	481 - Audio Verification
	101 - 8-Zone Expander	491 - Alternate Comm.
	201 - Output Expander	501 - Power Supply
	461 - HSM2Host	521 - High-Current Output
<b>901</b>	Installer Walktest	
<b>902</b>	Zone Soak Test	000 - Soak Test Duration (001-255 Days):
		001/0128 - Zone 1-128 soak test
<b>989</b>	Default Master Code	
<b>990</b>	Installer Lockout	<input type="checkbox"/> Enabled
<b>991</b>	Default Keypads	000 - Default All Keypads
		0XX - Default Keypad XX
<b>992</b>	Default Zone Expander	Default All
		Default Zone Expander XX
<b>993</b>	Default Alternate Communicator	
<b>996</b>	Default HSM2HOST	
<b>999</b>	Default System	001 - Default System
		002 - Default Labels

# Appendix 1: Wireless Device Configuration Options

[\*]>[8]>[804]Wireless Programming>[201]-[204] Device Toggles

Section	Sub-Section	Device Type	Option 1	Option 2
(201) Modify Wireless Zone Device	(001)	Contacts (Toggles)	(01) Alarm LED (02) Reed Switch	
	(002)	Contacts (Zone EOL)	(01) Disabled (02) Normally Open (03) Normally Closed (04) Single EOL	
	(003)	Motion/PIR	(01) Alarm LED (02) Event Counter (03) Black & White/Color (04) Image Resolution (05) Image Quality (06) Microphone (07) AC Power	
	(004)	PIR Cameras	(01) Disarm Activity	(01) Not Active (02) Yes-No Delay (03) Yes + 5 second Delay (04) Yes + 15 second Delay (05) Yes + 30 second Delay (06) Yes + 1 minute Delay (07) Yes + 10 minute Delay (08) Yes + 60 minute Delay
			(02) 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
			(03) 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
	(005)	Microwave + non-microwave Motion	(01) Detection Range	(01) Low Sensitivity (02) Mid Sensitivity (03) High Sensitivity
			(02) Detection Sensitivity	(01) Low Sensitivity (02) Mid Sensitivity (03) High Sensitivity (04) UL Standard
			(03) Unset Activity	(01) Unset Activity Time
			(04) Set Activity	(01) Set Activity Time
			(05) 24Hr or Night	(01) Set Act Time
	(006)	Glassbreak		
	(007)	Smoke	(01) Burglary Siren (02) Fire Siren (03) Gas/CO Siren (04) Flood Siren	
	(008)	CO		

<b>Section</b>	<b>Sub-Section</b>	<b>Device Type</b>	<b>Option 1</b>	<b>Option 2</b>
	(009)	Gas		
	(010)	Flood	(01) Alarm LED	
	(011)	Temperature	(01) Alarm LED (02) Temperature °C (03) Very Hot (04) Hot (05) Cold (06) Very Cold (07) Freezing (08) Freezer	
(202) Modify Siren	(001)	Wireless Siren	(01) Device Toggles	(01) Auto Tmp Alarm (02) AC Power (03) Smash Alarm
			(02) Strobe Alarm	(01) Disabled (02) Timer Limited (03) Until Disarmed
			(03) Exit-Entry Beeps	(01) Disabled (02) Enabled (03) Disabled Stay
			(04) Squawk	(01) Disabled (02) Sounder Only (03) Strobe Only (04) Sounder + Strobe
			(05) Sounder Volume	(01) Low (02) Medium (03) High



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## **Warning Please 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 be 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, disconnect 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 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 roofs, 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.

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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 language 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.**

#### *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 items) 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);
- 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.

#### *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 Authorisation number (RMA) is issued by DSC's Customer Service.

Digital Security Controls'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 here 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.

## IC Statement

This device complies with Industry Canada licence-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.

## 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.

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)

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

(DAN) DSC erklærer herved at denne komponent overholder alle vigtige krav samt andre bestemmelser gældt 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 laitteen 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) Δία 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 1999/5/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/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.

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.

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.

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# DSC

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