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PowerSeries Pro Alarm Control Installation Guide

Quick Setup

 Plan Plan the installation including all alarm detection devices, zone expanders, keypads and other required modules. Mount Decide on a location for the alarm panel and secure it to the wall using suitable mounting hardware. Wire Complete all wiring including modules, zones, bells/sirens, telephone line connections and ground connections. Record module serial numbers on page 21. Power Connect the battery and power up the system. The battery must be connected. Enroll Hardwired: Wire the keypad to the Corbus, power up the alarm panel then press any button on the keypad. Wireless: Keypad Wire the HSM2Host to the Corbus, then power up the alarm panel and a wireless keypad. Press any button on the keypad to enroll it. The HSM2Host is then enrolled on the alarm panel. Alternately, enroll an RF keypad. Enroll [*][8][Installer Code][902] subsection [000]. Press [*] to begin auto-enrollment. Module slots are automatically assigned. Use scroll keys to view slots. Change slot by typing a 2-digit number. Enroll [*][8][Installer Code][804] subsection [000]. Note: An HSM2HOST or RF keypad must be enrolled first. devices Program Basic programming: [*][8][installer code] [001]/[002]> Zone Type/Zone Attribute [005]>[001] Partition 1 Timers: – Entry Delay 1 – Entry Delay 2 – Exit Delay [301]>[001] Phone #1 [310]>[000] System Account Code. Test Test the panel completely to ensure that all features and functions operate as programmed. – [901] Walk Test – [904] [000] Wireless Placement Test. 			
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	9	Test	functions operate as programmed [901] Walk Test - [904]

Compatible Devices

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

Note: Only models operating in the band 912-919 MHz are UL/ULC listed where indicated. For UL/ULC certified installations, use only UL/ULC listed devices. Only models marked with xxx^{UL} are UL/ULC listed.

Table 1-1 Compatible Devices

Modules		
Wireless keypads:	HS2LCDWFx ^{UL} HS2LCDWFPx ^{UL}	HS2LCDWFPVx ^{UL}
Hardwired keypads with PG Host	HS2LCDRFx ^{UL}	HS2LCDRFPx ^{UL}
Hardwired keypads:	HS2LCD ^{UL}	HS2LCDP ^{UL}
Touchscreen keypad:	HS2TCHP ^{UL}	
Notes: .Only keypads with an order control panels.	code containing the letter E	are compatible with PowerSeries Pro

Note: For ULC-s559 Listed applications the HS2TCHP touchscreen keypad is for supplementary use only.

2-way wireless transceiver: HSM2HOSTx^{UL}

8-zone expander:	HSM2108 ^{UL}	
8 low current output expander:	HSM2208 ^{UL}	
8-zone expander:	HSM3408 ^{UL}	
1 A Power supply:	HSM2300 ^{UL}	
3 A power supply:	HSM3350 ^{UL}	
4 high current output expander:	HSM2204 ^{UL}	
Audio verification module:	HSM2955(R) ^{UL}	
Power supply/relay output/Corbus	HSM3204CX ^{UL}	
repeater module:		
USB to WiFi adapter:	HSM3WIFI	
Alternate communicator:	LE9080 ^{UL}	GS9080
	3G9080-EU	TL880LT ^{UL}
	3G9080 ^{UL} 3H9080 ^{UL}	TL8803G ^{UL}
	5119080***	
Hardwired Devices		
2-wire smoke detectors:	FSA-210x ^{UL}	FSA-210xR ^{UL}
y= A, B, or C	FSA-210xTUL	FSA-210xRT ^{UL}
A: ULC listed models	FSA-210xS ^{UL} FSA-210xST ^{UL}	FSA-210xRS ^{UL} FSA-210xRST ^{UL}
B: UL listed models C: European and Australian models	FSA-210xLST ^{UL}	FSA-210xLRST ^{UL}
4-wire smoke detectors:	FSA-410x ^{UL}	FSA-410xR ^{UL}
y = A, B, or C	FSA-410x ^{UL}	FSA-410xRT ^{UL}
A: ULC listed models	FSA-410xS ^{UL}	FSA-410xRS ^{UL}
B: UL listed models	FSA-410xST ^{UL}	FSA-410xRST ^{UL}
C: European and Australian models	FSA-410xLST ^{UL}	FSA-410xLRST ^{UL}
CO detectors:	CO-12/24UL	FW-CO1224
	12-24SIR ^{UL}	CO1224
	FW-CO12	
Wireless Devices		
Wireless PG smoke detector		PGx926 ^{UL}
Wireless PG heat and smoke detector		PGx916 ^{UL}
Wireless PG Smoke detector		PGx936
Wireless carbon monoxide (CO) detect		PGx913 ^{UL}
Wireless carbon monoxide (CO) detection Wireless PG Smoke and heat detector		PGx913 ^{UL} PGx923
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Central Station Receivers

SG-System I, II, III, IV, 5



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.



Enclosures

HSC3010C, HSC3010CR, HSC3030CAR, HSC3020C, HSC3020CP. Other enclosures are available to suit a variety of system configurations.

Note: All enclosures are UL/ULC listed, except the HSC3020CP. Do not use model HSC3020CP in UL/ULC certified installations.

Safety Instructions for Service Personnel

WARNING: When using equipment connected to the telephone network, always follow the basic safety instructions provided with this product. Save these instructions for future reference. Inform the end-user of the safety precautions that must be observed when operating this equipment.

Before Installing The Equipment

Ensure your package includes the following items:

- Installation and User manuals, including the SAFETY INSTRUCTIONS.
 READ and SAVE these instructions!
 - Follow all WARNINGS AND INSTRUCTIONS specified within this document and/or on the equipment.
- HS3032/HS3128 alarm controller
 Dower Supply direct alars in
- Power Supply, direct plug-in

Selecting A Suitable Location For The Alarm Controller

- Use the following list as a guide to find a suitable location to install this equipment:
 - Locate near a telephone socket and power outlet.Select a location free from vibration and shock.
 - Place alarm controller on a flat, stable surface and follow the installation instructions

Do NOT locate this product where people may walk on the secondary circuit cable(s).

Do NOT connect alarm controller to electrical the same circuit as large appliances.

Do NOT select a location that exposes your alarm controller to direct sunlight, excessive heat, moisture, vapors, chemicals or dust.

Do NOT install this equipment near water. (e.g., bath tub, kitchen/laundry sink, wet basement, near a swimming pool).

Do NOT install this equipment and accessories in areas where risk of explosion exists.

Do NOT connect this equipment to electrical outlets controlled by wall switches or automatic timers.

AVOID interference sources.

AVOID installing equipment near heaters, air conditioners, ventilators, and refrigerators.

AVOID locating equipment close to or on top of large metal objects (e.g., wall studs).

See "Locating Detectors and Escape Plan" on page 22 for information on locating smoke and CO detectors.

SAFETY Precautions Required During Installation

- NEVER install this equipment and/or telephone wiring during a lightning storm.
- **NEVER** touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
- Position cables so that accidents can not occur. Connected cables must NOT be subject to excessive mechanical strain.
- Use only the power supply provided with this equipment. Use of unauthorized power supplies may cause damage.
- For direct plug-in versions, use the power supply module supplied with the device.

WARNING: THIS EQUIPMENT HAS NO MAINS ON/OFF SWITCH. THE PLUG OF THE POWER SUPPLY CORD IS INTENDED TO SERVE AS THE DISCONNECTING DEVICE IF THE EQUIPMENT MUST BE QUICKLY DISCONNECTED. IT IS IMPERATIVE THAT ACCESS TO THE MAINS PLUG AND ASSOCIATED MAINS SOCKET/OUTLET IS NEVER OBSTRUCTED.

IMPORTANT NOTE FOR INTERNATIONAL MARKET (EU, AUS, NZ)!

This equipment is stationary-fixed and must be installed by Skilled Persons only. Skilled Person is defined as a person with relevant education or experience to enable him or her to identify hazards and to take appropriate actions to reduce the risks of injury to themselves and others.

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. When using equipment connected to the mains and/or to the telecommunication network, there are basic safety instructions that should always be followed. Refer to the safety instructions provided with this product and save them for future reference. To reduce the risk of fire, electric shock and/or injury, observe the following: Do not attempt to service this product yourself. Opening or removing the cover may expose you to dangerous voltage or other risk. Refer servicing to qualified service persons. Never open the device vourself. Use authorized accessories only with this equipment. DO NOT leave and/or deposit ANY object on the top of the cabinet of this equipment! The cabinet as it is installed on the wall is not designed to support any supplementary weight! Do not spill any liquids on the cabinet. Do not touch the equipment and its connected cables during an electrical storm; there may be a risk of electric shock. Never touch uninsulated wires or terminals unless the equipment has been disconnected from the mains supply and from the telecommunication network! Ensure that cables are positioned so that accidents cannot occur. Connected cables must not be subject to excessive mechanical strain. Do not spill any type of liquid on the equipment. Do not use the Alarm system to report a gas leak if the system is near a leak. Do not subject the connected cables to an excessive mechanical strain. These safety instructions should not prevent you from contacting the distributor and/or the manufacturer to obtain any further clarification and/or answers to your concerns.

Installation

Mounting the Enclosure

This section provides basic instructions for wall-mounting the available PowerSeries Pro enclosures. Mount in a dry location, near an unswitched AC power source and Ethernet and phone connections. If mounting on drywall, ensure all four screw holes align with wall studs.

Complete all wiring before applying AC or connecting the battery.

Note: The weight of the enclosure and contents cannot be supported by drywall only. Use mounting hardware sufficient to support up to three times the panel weight, including equipment, cables, conduit and hardware (approximately 210 lbs/ 95 kg). Select hardware suitable for the mounting surface.

Recommended minimum screw size: M4 (#8) x 4, 25.4 mm (1 inch) long, pan head.

To mount the enclosure, complete the following steps:

- 1. Position the enclosure in the mounting location and mark the two top screw holes and the tamper bracket hole.
- 2. Remove the enclosure, then install the two top screws part way and an anchor for the tamper bracket, if necessary. Do not mount the tamper bracket directly into drywall.
- 3. Hang the enclosure on the installed screws then mark the two bottom mounting holes.
- 4. Remove the enclosure from the wall and install the components in the following order:
 - Plastic standoffs for alarm controller and optional modules
 - · Tamper switch and bracket
 - Power supply, including GND connection for HSC3010C, HSC3010CR, and HSC3030CAR enclosures (see diagram). Note that the ground nut mounts from the back of the cabinet.
- 5. Hang the enclosure on the top two screws again then fasten the tamper bracket to the wall.
- 6. Install the two bottom screws. Ensure that all four screws are securely tightened.

- Install the alarm controller. For models HSC3010C, HSC3010CR, HSC3030CAR and HSC3020C enclosures, use the supplied metal standoff and screw in bottom-right mounting hole as indicated in figure 2-1.
- 8. Install optional modules and wire according to the instructions provided with the module.
- 9. Wire the tamper switch into any available zone. Configure the tamper for Normally Closed (NC) supervision. Zone must be programmed for 24-hour Latching or Non-Latching tamper.
- 10. Install the batteries only after the enclosure has been permanently secured to the wall.

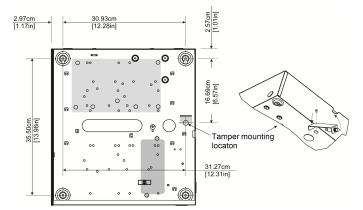
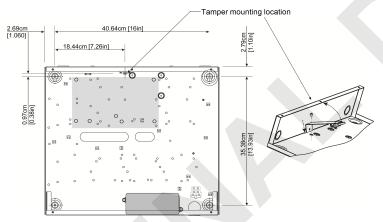
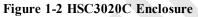


Figure 1-1 HSC3010C, HSC3010CR, HSC3030CAR Enclosures





Note: When power adapter model HS65WPSNA is not mounted inside the enclosure model HSC3010C or HSC3020C, it must be attached to the mounting surface using appropriate screws inserted through the mounting tabs provided on the module's enclosure.

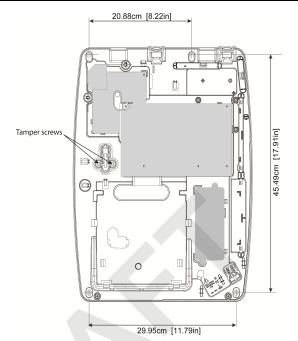


Figure 1-3 HSC3020CP Enclosure

Note: HSC3020CP is used only for EN installations.

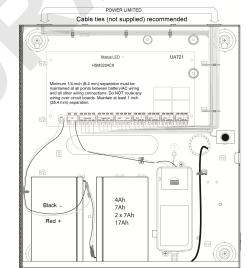


Figure 1-4 HSM3204CX/ HSM3408 in HSC3010C Enclosure

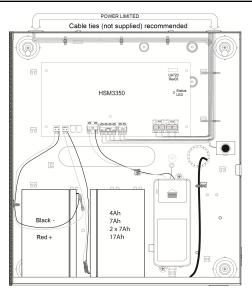


Figure 1-5 HSM3350 in HSC3010C Enclosure

Terminal Descriptions

The following terminals are available on the PowerSeries Pro alarm controller.

Description
Battery terminals. Use to provide backup power during a power outage and additional current when system demands exceed the power output of power adapter, short term such as when the system is in alarm.
Do not connect the battery until all other wiring is complete.
18VDC power input to the alarm controller as supplied by the HS65WPSx* power adapter.
Connect the battery before connecting the AC. Do not connect the battery or power adapter until all other wiring is complete.
Auxiliary terminals. Use to power, detectors, relays, LEDs, etc. (2 A MAX). Connect the positive side of device to one of the three AUX+ terminals and the negative side to AUX- or COM.
Bell/Siren power (700mA continous, 2A MAX short term). Connect the positive side of any alarm warning device to BELL+, the negative side to BELL
Note: For EN50131 and UL/ULC listed applications, use maximum 700 mA load on the BELL output.
Corbus terminals. Use to provide power and communication between the alarm controller and connected modules. Each module has four Corbus terminals that must be connected to the Corbus.
Programmable output terminals. Use to activate devices such as LEDs, relays, buzzers, etc.
(PGM1, PGM4: 100 mA; PGM2: 300 mA or can be configured for use as a 2-wire smoke detector interface, max loop current 100 mA; PGM3: 300 mA (negative trigger) or 1 A (positive trigger))
Zone input terminals. Ideally, each zone should have one detection device; however, multiple detection devices can be wired to the same zone.
Earth ground connection
Ethernet port
Telephone line terminals

*x= none use for CE/EN certified applications

x= NA use for UL/ULC listed applications

x= NAS use for ULC Commercial Fire Listed applications and ULC Commercial Burg Security Level 4 applications.

Corbus Wiring

The RED and BLK Corbus terminals are used to provide power while YEL and GRN are used for data communications. The 4 Corbus terminals of the alarm controller must be connected to the 4 Corbus terminals or wires of each module.

The following conditions apply:

- Corbus should be run with 18 to 22 AGW quad, two pair twisted preferred.
- The modules can be home run to the panel, connected in series or can be T-tapped.
- Do not use shielded wire for Corbus wiring.

Note: Any module can be connected anywhere along the Corbus. Separate wire runs for keypads, zone expanders etc. are not necessary.

Note: No module can be more than 1,000'/305m (in wire length) from the panel. Do not use shielded wire for Corbus wiring.

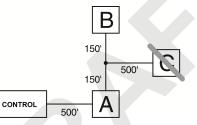


Figure 1-6 Corbus Wiring

Module (A) is wired correctly as it is within 1,000'/305m of the panel, in wire distance. Module (B) is wired correctly as it is within 1,000'/305m of the panel, in wire distance. Module (C) is NOT wired correctly as it is farther than 1,000'/305m from the panel.

Current Ratings

In order for the system to operate properly, the power output of the alarm controller and power supply modules cannot be exceeded. Use the following data to ensure that the available current is not exceeded.

Table 1-2 System output ratings

Device	Output	Rating (12 V DC)
HS3032 HS3128	AUX/ Corbus:	2 A. Subtract the listed rating for each keypad, expansion module and accessory connected to AUX or Corbus. At least 100 mA must be reserved for the Corbus.
	BELL:	700 mA continuous rating. 2.0 A. short term. Available only with standby battery connected. DO NOT exceed the 700 mA load for UL/ULC or EN certified applications.
HSM3350	AUX1: AUX2:	3 A. Subtract the listed rating for each keypad, expansion module and accessory connected to AUX.
HSM3408	AUX:	500 mA. Continuous rating. Subtract for each device connected. Subtract the total load on this terminal from the alarm panel AUX/Corbus output.
HSM3204CX	AUX/ Corbus:	2 A. Continuous rating. Subtract for each device connected.
HSM2208	AUX:	250 mA. Continuous rating. Subtract for each device connected. Subtract the total load on this terminal from the alarm panel AUX/Corbus output.
HSM2108	AUX:	100 mA. Subtract for each device connected. Subtract the total load on this terminal from the panel AUX/Corbus output.

Alarm Control Panel

AUX - 2000 mA available for devices connected to the AUX and PGM terminals, and modules connected to Corbus terminals. At least 100mA must be reserved for the Corbus.

Alarm Controller Current Calculation	Secondary: 18 V DC, 3.6 A.
Panel Calculation	Warning: Do not connect the battery or power supply until all other wiring is complete.
Maximum (Standby or Alarm)	For ULC S559 Commercial Fire Monitoring and ULC S304 Commercial
AUX (2 A max. including PGMs 1-4)	Burglary applications, the power adaptor HS65WPSNAS must be employed for hardwiring to AC Mains.
	Note: For UL/ULC installations use only 60 Hz.
Corbus (2 A max.)***	AC (International Installations)
	Primary: 220 V - 240 V AC, 50 Hz, 1.7 A
	Secondary: 18 VDC, 3.6 A
PCLink+ (200 mA)	Warning: Do not connect the battery or AC power until all other wiring is complete.
	Batteries
	Do not connect the battery until all other wiring is complete.
USB (500 mA max.)	Note: A sealed, rechargeable, lead acid battery or gel type battery is required to meet UL requirements for power standby times.
	Connect the RED battery lead to the positive battery terminal and the BLACK battery lead to the negative battery terminal.
	Note: Refer to "Aux Loading and Battery Selection" on page 26.
Cell Module (20 mA Idle)	Additional Wiring
	Zone Wiring
	Power down the alarm controller and complete all zone wiring.
Total (must not exceed 2 A)	Zones can be wired to supervise normally open devices (e.g., smoke detectors) or normally closed devices (e.g., door contacts). The alarm panel can also be programmed for single end-of-line, double end-of-line, and triple-end of line resistors.
	Zone programming is done using the following programming sections:
For UL, ULC and Commercial Listed applications, the total standby and alarm current cannot exceed 2 amps.	 [001] selects zone definition [013] Opt [1] for normally closed or EOL; Opt [2] for SEOL or

Note: For EN50131, UL, ULC and Commercial Listed applications, the total standby and alarm current cannot exceed the values in Aux Loading and Battery Selection for the applicable type of installation.

Capacitance Limits

An increase in capacitance on the Corbus affects data transmission and causes the system to slow down. Capacitance increases for every foot of wire added to the Corbus. The capacitance rating of the wire used will determine the maximum length of the Corbus.

Table 1-3 Wire Capacitance

Wire Capacitance per 1000' (300 m)	Total Corbus Wire Length
15 nF	5300ft/1616 m
20 nF	4000 ft/1220 m
25 nF	3200 ft/976 m
30 nF	2666 ft/810 m
35 nF	2280 ft/693 m
40 nF	2000 ft/608 m

AC (UL/ULC Listed Installations)

Power supply: HS65WPSx.

Note: Where x = NA for UL/ULC cord connected, NAS for UL/ULC hardwired applications, and none for CE/EN compliant installations.

Primary: 120 V AC, 60 Hz, 1.7 A Energy Efficiency Class VI

DEOL[201 - 208] partition assignment.

Alternately, zones may be individually configured as NC, SEOL, DEOL, or TEOL trough section [002] Zone Attributes, toggles 9,10, 11 and 15, which will override the option in [013].

Observe the following guidelines when wiring zones:

- For UL listed installations use SEOL or DEOL only
- Minimum 22 AWG wire, maximum 18 AWG
- Do not use shielded wire
- Do not exceed 100 $\mathbf{\Omega}$ wire resistance. Refer to the following table:

Table 1-4 Burglary Zone Wiring Chart

Wire Gauge	Maximum Length to EOL Resistor (ft/- meters)	
22	3000 / 914	
20	4900 / 1493	
19	6200 / 1889	
18	7800 / 2377	
Figures are based on maximum wiring resistance of 100Ω .		

Aux Power Wiring

These terminals provide 10.8-12.5 Vdc/2 A max of current (shared with PGM outputs). Connect the positive side of any device to the AUX+ terminal, the negative side to GND. The AUX output is protected; if too

much current is drawn from these terminals (wiring short) the output is temporarily shut off until the problem is corrected.

PGM Wiring

Min/max operating voltages for devices, sensors and modules is 10.8 V DC - 12.5 V DC - 15% to +10%.

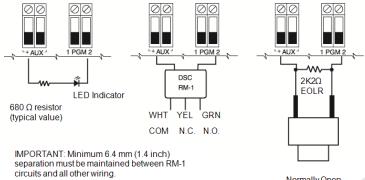
PGMs switch to ground when activated from the alarm controller. Connect the positive side of the device to the AUX+ terminal and the negative side to a PGM terminal.

PGM 1, and 4 supply up to 100 mA; PGM 2 and 3 supply up to 300 mA.

A relay is required for current levels that exceed the maximum limits.

PGM2 can also be used for two-wire smoke detectors or 24-hour burglary input alarm.

Note: Use SEOL resistors on Fire zones only.



Normally Open

Figure 1-7 LED Output with Current Limiting Resistor and Optional Relay Driver Output.

UL Compatibility ID For FSA-210B Series is: FS200

Note: For ULC listed installations, use FSA-210A and FSA-410A series.

Single End-of-Line (SEOL) Resistor

When SEOL resistors are installed at the end of a zone loop, the alarm panel detects if the circuit is secure, open, or shorted. The SEOL resistor must be installed at the end of the loop for proper supervision.

To enable SEOL supervision, program section [013], options [1] and [2] to OFF. To configure SEOL supervision, use programming section [002], bit 10.

Note: This option should be selected if either normally closed or normally open detection devices or contacts are used.

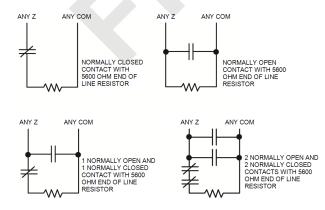


Figure 1-8 SEOL Wiring

Double End of Line (DEOL) Resistors

When double end-of-line (DEOL) resistors are installed at the end of a zone loop, the second resistor enables the panel to determine if the zone is in open, closed, tampered or faulted.

Note: Any zone programmed for Fire or 24-hr Supervisory must be wired with a SEOL resistor regardless of the type of zone wiring supervision selected for the panel. If you change the zone supervision options from DEOL to SEOL or from NC to DEOL, power the system down completely, then power it back up for correct operation. To enable DEOL supervision, program section [013], option [1] to OFF and option [2] to ON. To configure SEOL supervision, use programming section [002], bit 11.

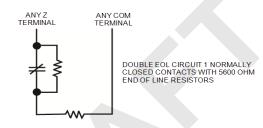
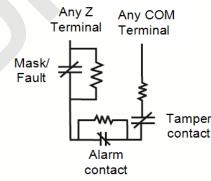


Figure 1-9 DEOL Wiring

Triple End-of-Line (TEOL) Resistor

The TEOL resistor supervises anti-masking functionality in hardwired motion detectors. To configure TEOL supervision, use programming section [002], bit 15.



TEOL CIRCUITS 3 NORMALLY CLOSED CONTACTS. ALARM RESISTOR: 5600 Ω TAMPER RESISTOR: 5600 Ω MASK: 10000 Ω

Figure 1-10 TEOL Wiring

Bell Wiring

These terminals supply 700 mA of current at 10.8 - 12.5 VDC for commercial/ residential installations. To comply with NFPA 72 Temporal Three Pattern requirements, section [013] Opt [8] must be ON. Note that steady, pulsed alarms are also supported. Temporal 4 cadence for CO alarm notification is also supported.

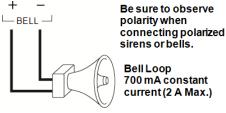


Figure 1-11 Bell Wiring

The Bell output is supervised and power limited by 2 A hardware protection. If unused, connect a 1000 Ω resistor across Bell+ and Bell- to prevent the panel from displaying a trouble.

Telephone Line Wiring

Wire the telephone connection terminals (TIP, Ring, T-1, R-1) to an RJ-31x connector as indicated in the following diagram. For connection of multiple devices to the telephone line, wire in the sequence indicated. Use 26 AWG wire minimum for wiring.

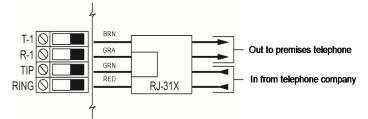


Figure 1-10 Telephone Line Wiring

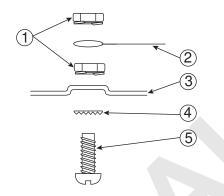
Telephone format is programmed in option [350]. Telephone call directions are programmed in options [311]- [318].

Earthground Wiring

Using the supplied insulated green wire, connect the earth ground terminal on the HS65WPSx power adapter to the earth ground screw and nut assembly as shown in the diagram.

The earth ground screw and nut assembly must be mounted to the cabinet

to one of the designated holes marked with the earth ground symbol (=)



	Description
1	Nut
2	Earth ground connection from building electrical installation.
	Note: This ground connection goes to HS65WPSNA power adapter EGND connections when this power adapter is mounted in the cabinet.
3	Cabinet
4	Star washer
5	Bolt

Figure 1-12 Earthground Installation

Enrollment

All optional modules and devices must be enrolled on the system. During enrollment, the electronic serial number (ESN) of each device is identified to the control panel and zones are assigned. A wireless transceiver HSM2HOST or an RF keypad must be enrolled first before wireless devices can be enrolled.

Enrolling Modules

During automatic and manual enrollment, if an attempt is made to enroll more than the maximum number of modules, an error tone sounds and a message is displayed on LCD keypads.

Modules can be enrolled automatically or manually using section [902] of Installer programming.

To confirm that a module has been successfully enrolled, use Installer Programming section [903].

Enroll Wireless Devices

Wireless devices are enrolled via the wireless transceiver module and Installer Programming section [804][000].

Auto Enrollment

To enroll a wireless device using this method, press and hold the Enroll button on the device for 2-5 seconds until the LED lights then release the button. The alarm panel automatically recognizes the device and the keypad displays a confirmation message. The device ID and next available zone number are displayed. Press [*] to accept or scroll to another available zone number. Batteries must be installed in the wireless device in order to enroll.

Pre-Enrollment

Pre-enrollment is a two step process. The first step requires entering each device ID ([804][001]-[716]). Every wireless device has an ID printed on the sticker attached to the device. The format is XXX-YYYY where:

- XXX identifies the type or model of the device
- YYYY is a short encrypted ID used by the system to identify the specific device

Pre-enrollment can be done at a remote location and using DLS/SA. The second step is to press the enrollment button on the device, usually done on location. Installer Programming does not have to be entered at this step. Both steps must be performed in order to complete the enrollment.

Programming Methods

The alarm system can be programmed using the following methods:

Table 1-5 Programming Methods

Method	Description	Procedure
Template programming	Use pre-defined templates to quickly apply basic programming and to set up DLS downloading.	Press [899] at the "Enter Section" screen. See Template Programming below for details.
DLS programming	Download and apply programming using DLS 5	For local DLS, use a micro USB cable or a Wi-Fi dongle and laptop with DLS-5 software installed. For remote DLS, use a telephone line, cellular network or the Internet.
Installer programming	Manually program all alarm system and device options.	Press [*][8][installer code] while the system is disarmed.

Viewing Programming

Programming sections can be viewed from any system keypad.

Generally, programming options are accessed in the following way:

- 1. Enter Installer Programming mode ([*][8]).
- 2. Navigate to a specific programming section.
- 3. Select an option to view or change its programming.

All programming options are numbered and can be accessed by navigating through the menu, or by keying in the program section number. For toggle options, the name of the option is displayed.

Use the keypad numbers to toggle options on or off. Sections requiring data input, such as phone numbers, display the full data in fields up to 32 characters long. To input data, use the scroll keys to select a character then press the keypad button corresponding to the number/letter required. Scroll to the next character and repeat the procedure as needed. Press the [#] key to save changes and exit the program section.

Minimum Required Programming

Once basic installation of the alarm panel is complete, the following general configuration options can be set.

[000] Language Selection

To select a language:

- 1. Enter Installer Programming: [*][8][Installer Code].
- 2. Enter programming section [000]>[000].
- 3. Key in the 2-digit number corresponding to the language required. See below:

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

Time and Date

Use this section to program the alarm system clock.

Menu: [*][6][Master Code] > Time and Date

Keypad: [*][6][Master Code] + 01

Enter time and date using the following format: (HH:MM); (MM-DD-YY). Valid time entries are 00-23 hours, 00-59 minutes. Valid date entries are 01-12 months, 01-31 days.

Setting Up a Partition

Partitions are added or removed from the system by applying or removing a partition mask via Installer Programming section [200]. The number of available partitions depends on the alarm panel model.

Bell/Siren Operation

Each partition must have a siren. The system siren connected to the bell output of the alarm controller can be mounted in a central location within hearing range of all partitions. Each partition can also have wireless sirens activated only on the assigned partition.

Keypad Partition Setup

Keypads can be configured to control an individual partition or all partitions. In general, a partition keypad controls the partition it is assigned to. A Global keypad controls all partitions. Global keypads should be placed in common areas of the premises, such as points of entry or reception areas, where the ability to arm and disarm more than one partition at a time is required.

Partition keypads can also be temporarily loaned to other partitions.

To select a keypad operating mode:

- 1. Enter Installer Programming: [*][8][installer code].
- 2. Select [861]-[876] to program keypads 1-16.
 - Press [000] for partition assignment.
 - For Global operation, key in 00.
 - To assign a keypad to a partition, key in 01-08 for partition 1-8.
- Press the [#] and reapeat step 2 for next keypad. When finished programming all keypads, press the [#] key twice to exit programming.

Users are assigned partition access rights via the [*][5] menu.

Assign wireless sirens to partitions:

[804]>[000]>[551]-[556]>[000]

Set up partition account codes:

[310]>[001]-[008]

Set up partition timers:

- Entry/exit delay, settle delay [005]>[001]-[008]
- Automatic arming/disarming schedule [151]-[158]>[001]/[002]
- Auto disarming holiday schedule [151]-[158]>[003]
- No activity arming [151]-[158]>[006]
- Automatic clock adjust [005]>[000], option 6
- Delay between dialing attempts [377]>[012]

Assign Zone Types

A zone type defines how a zone operates within the system and how it responds when triggered.

000 - Null Zone	040 - 24-Hour Gas
001 - Delay 1	041 - 24-Hour CO
002 - Delay 2	042 - 24-Hour Holdup*
003 - Instant	043 - 24-Hour Panic
004 - Interior	045 - 24-Hour Heat
005 - Interior Stay/Away	046 - 24-Hour Medical*
006 - Delay Stay/Away	047 - 24-Hour Emergency
007 - Delayed 24-Hour Fire	048 - 24-Hour Sprinkler*
008 - Standard 24-Hour Fire	049 - 24-Hour Flood
009 - Instant Stay/Away	051 - 24-Hour Latching Tamper
010 - Interior Delay	052 - 24-Hour Non-Alarm
011 - Day Zone	056 - 24-Hour High Temperature
012 - Night Zone	057 - 24 Hour Low Temperature
016 - Final Door Set	060 - 24-Hour Non-Latching Tamper
017 - 24-Hour Burglary	061 - 24-Hour Anti-Masking
018 - 24-Hour Bell/Buzzer	066 - Momentary Keyswitch Arm
023 - 24-Hour Supervisory	067 - Maintained Keyswitch Arm
024 - 24-Hour Supervisory Buzzer	068 - Momentary Keyswitch Disarm
025 - Auto Verified Fire	069 - Maintained Keyswitch Disarm
027 - Fire Supervisory	071 - Door Bell
	072 - Push to Set

* Not UL evaluated

Assign zone attributes:

[002]>[001]-[128]>Select one of the following zone attributes:

- 1 Bell Audible
- 2 Bell Steady
- 3 Chime Function
- 4 Bypass Enabled
- 5 Force Arm
- 6 Swinger Shutdown
- 7 Transmission Delay

- 8 Burglary Verification
- 9 Normally Closed
- 10 Single EOL
- 11 Double EOL
- 12 Fast/Normal Loop Response
- 13 Zone 2-way Audio Activation
- 14 Hold Up Verification
- 15 Triple EOL

Create labels:

[000]>[001]-[821] 2 x 14 ASCII characters.

Add access codes:

To program an access code: [006] then one of the following:

- [001] Installer code
- [002] Master code
- [003] Maintenance code

Access codes are either 4, 6 or 8 digits in length, depending on the setting of programming section [041]. Duplicate codes are not valid.

Communication Paths

The path of communication between the alarm panel and the central station must be established through either the alarm panel's on-board Public Switched Telephone Network (PSTN) connection (Ethernet) or through the alternate communicator if equipped.

Alternate Communicator Setup

The alternate communicator is an ethernet or optional cellular communications device that can be used as a backup to the PSTN connection or as a primary means of communication between the alarm panel and the central monitoring station. The alternate communicator communicates via 2G, 3G, LTE or Ethernet.

The following configuration steps are required to set up the alternate communicator:

- Install the optional cellular alternate communicator to the alarm panel
- Enroll the alternate cellular communicator with Connect 24 (North America only)
- Set the communication path: [300]
- Enable the alternate communicator: [383] option 3 for Ethernet, and [383] option 4 for cellular.
- The Ethernet or Cellular receivers IP and Port: [851]
- Enable event reporting: [307]/[308]
- Program communication delay timer: [377]
- Program DLS access: [401] option 07

Refer to Section 5: Programming for details.

[300] Panel/Receiver Communication Paths

This section is used to select the path of communications between the alarm system and the central station.

Testing the System

Installer Walk Test

Walk test enables the installer to test the operation of each detector by tripping zones, causing an actual alarm. Enter section [901] to initiate a walk test. When a zone is tripped, all system sirens emit a tone to indicate that the zone is working correctly.

After 15 minutes without zone activity, the walk test terminates automatically. To manually exit walk test mode, enter [901] again.

Viewing the Event Buffer

The event buffer contains logs of events that have occurred on the alarm system beginning with the most recent. The capacity of the event buffer is scalable and can hold 500/1000 events (depending on panel model) before rolling over. The buffer displays events according to their time stamp, beginning with the most recent. The event buffer can be uploaded using DLS.

Each event displays the time and date, a description of the event, the zone label, access code number or any other pertinent information. To view the event buffer, press [*][6][Master Code][*].

Troubleshooting

LCD programmable-message keypad:

- Press [*][2] followed by access code if required to view a trouble condition
- The trouble light flashes and the LCD displays the first trouble condition
- Use the arrow keys to scroll through all trouble conditions present on the system

Note: When additional information is available for a specific trouble condition, a [*] is displayed. Press the [*] key to view the additional information.

[*][2] Trouble Display

This feature is used to view system troubles. If a trouble is present, the keypad Trouble indicator illuminates and an audible indication is emitted (two short beeps every 10 seconds, except while in AC failure). Silence the audible indicator by pressing [#].

Troubles may be viewed while the system is armed or disarmed. The system may be programmed to show all troubles while armed or only fire troubles.

The system can be configured to require a user code to view [*][2] system troubles. See section [023] option 5.

To view trouble conditions:

- Press [*][2] to enter the Trouble menu.
- On an LCD keypad, scroll to a trouble type then press [*] to view the specific trouble. The zone name and trouble condition for each trouble are displayed on the screen.

Table 1-6 : Trouble Indications

Table 1-6 : Trouble Indications	Trouble 04 – AC or DC input power trouble:
Trouble 01 – Service Required:	[01] Zone 001 - 128 AC or DC input power trouble: An AC or DC input power trouble has been detected on a PGX934 PIR + Camera.
[01] Bell Circuit Trouble: The bell circuit is open	[02] Keypad AC or DC input power trouble: A keypad has an AC or DC input power
[02] RF Jam: The HSM2HOSTx has detected an RF Jam condition	trouble.
[03] Loss of Clock: System time and date require programming.	[03] Siren 01 - 16 AC: A siren has an AC or DC input power trouble.
04] Output 1 Fault: An HSM2204 module has detected an open condition on output	[04] Repeater 01 - 08 AC: A wireless repeater has an AC or DC input power trouble.
1.	[05] HSM2300 01 - 04 AC: An HSM2300 has an AC or DC input power trouble.
05] Warm Start: Warm restart has occured.	[06] HSM2204 01 - 04 AC: An HSM2204 has an AC or DC input power trouble.
06] USB Wi-Fi Connected: USB Wi-Fi adapter is detected	[07] Panel AC: The alarm controller has an AC failure condition.
07] Power Unit Failure (System): Failure detected with internal power unit.	[08] HSM3204CX AC: A corbus repeater has an AC or DC input power trouble.
08] Failure detected with internal power unit (HSM3204CX Corbus Repeater)	[09] HSM3350 AC: The 3A power supply has an AC or DC input power trouble.
09] Failure detected with internal power unit (HSM3350 3 A Power Supply)	Trouble 05 – Device Faults:
10] Overcurrent Trouble: If the total current of the panel internal components and all outputs exceeds a threshold of 2.1 A for a period longer than 5 minutes, an	[01] Zone 001 - 128: A zone is in supervisory fault.
overcurrent trouble is generated. When the current goes below a 2.0 A threshold, the	[01] Zone ool = 120. A zone is in supervisory fault. [02] Keypad 01 - 16: A wireless or hardwired keypad is in supervisory fault.
trouble restores. Do not exceed 2A combined between AUX and Corbus.	[02] Keypad of - 10. A whereas of hardwired Keypad is in supervisory fault. [03] Siren 01 - 16: A siren is in supervisory fault.
Note: Total current does not include bell current or battery charging.	[04] Repeater 01 - 08: A wireless repeater is in fault (supervisory or loss of AC/DC).
Trouble 02 – Battery Trouble:	[06] Device Mask: A detection mechanism on the sensor is masked.
[01] Panel Low Battery Trouble: The battery voltage is low.	[07] Gas Trouble: A gas sensor is in fault.
[02] Panel No Battery: No battery connected to alarm controller.	[08] Heat Trouble: A temperature sensor is in fault or a temperature senso reaches the
[04] HSM2204 01 - 04 Low Battery: An HSM2204 has a low battery voltage.	high temperature warning threshold.
[05] HSM2204 01 - 04 No Battery: No battery connected to HSM2204.	[09] CO Trouble: A CO sensor is in fault.
[07] HSM2300 01 - 04 Low Battery: An HSM2300 has a low low battery voltage.	[10] Freeze Trouble: A temperature sensor falls below the low temperature warning
[08] HSM2300 01 - 04 No Battery: No battery connected to HSM2300.	threshold.
[10] HSM3204CX Low Battery: A Corbus repeater has a low battery voltage.	[11] Probe Disconn.: The probe on the flood detector or the temperature detector is disconnected.
[11] HSM3204CX No Battery: No battery connected to corbus repeater.	[12] Fire Trouble: A smoke sensor is in fault, or there is an open loop ondition for 2-
[13] HSM3350 Low Battery 1: A 3 A power supply module has a low battery voltage.	wire or 4-wire smoke detector.
[14] HSM3350 Low Battery 2: A 3 A power supply module has a low battery voltage.	Trouble 06 – Device Low Battery:
[15] HSM3350 No Battery 1: No battery connected to 3A power supply module.	[01] Zone 001- 128: Wireless zone has a low battery.
[16] HSM3350 No Battery 2: No battery connected to 3A power supply module.	[02] Keypad 01-16: Keypad has a low battery.
Trouble 03 – Bus Voltage:	[03] Siren 01 - 16: Siren has a low battery.
[01] HSM2HOSTx Bus Low Voltage: The HSM2HOSTx module has measured a low	[04] Repeater 01 - 08: Repeater has a low battery.
bus voltage.	[05] User 01 - 1000: Wireless Key has a low battery.
[02] Keypad 01 - 16 Bus Low Voltage: A hardwired keypad has a low bus voltage.	Trouble 07 – Device Tampers:
[04] HSM2108 01 - 15 Bus Low Voltage: A zone expander has a low bus voltage.	-
[05] HSM2300 01 - 04 Bus Low Voltage: A power supply has a low bus voltage.	[01] Zone 001 - 128 Tamper: A wireless or hardwired zone is in tamper.
[06] HSM2204 01 - 04 Bus Low Voltage: A high current output module has a low	[02] Siren 01 - 16 Tamper: A wireless siren is in tamper.
bus voltage.	[03] Repeater 01 - 08 Tamper: A wireless repeater is in tamper.
[07] Bus Fault (System): Panel Corbus Output voltage is too hight or too low.	[04] Audio Station 01 - 04 Tamper: An audio station connected to an HSM2955 is in tamper.
[08] HSM2208 01 - 16 Bus Low Voltage: The low current output module has detected a low voltage.	Trouble 08 – RF Delinquency Trouble:
[09] HSM2955 Bus Low Voltage: The audio module has detected a low bus voltage.	[01] Zone 001 - 128 RF Delinquency: No response from a wireless zone for 13
[10] HSM3408 Bus Low Voltage: The 8 zone expander has detected a low bus voltage.	minutes. This trouble prevents arming until acknowledged or cleared using [*][2].
[11] HSM3204CX Bus Low Voltage: The corbus repeater has detected a low bus voltage.	[02] Keypad 01 - 16 RF Delinquency: No response from a wireless keypad for 13 minutes.
[12] HSM3204CX Bus Fault: The corbus repeater has detected that the corbus output voltage is too high or too low.	[03] Siren 01 - 16 RF Delinquency: No response from a wireless siren for 13 minutes.[04] Repeater 01 - 16 RF Delinquency: No response from a wireless repeater for 13
TOTALE IS TOO HIGH OF TOO IOW.	minutes.

Trouble 09 – Module Supervisory Trouble:

[01] HSM2HOSTx not responding.
[02] Keypad 01 - 16 not responding.
[04] HSM2108 01 - 15 not responding.
[05] HSM2300 01 - 04 not responding.
[06] HSM2204 01 - 04 not responding.

[08] HSM2208 01 - 16 not responding.

[09] HSM2955 is not responding.

[11] HSM3408 is not responding.

[12] HSM3204CX is not responding.

[13] HSM3350 is not responding.

Trouble 10 – Module Tamper:

[01] HSM2HOSTx Tamper.

[02] Keypad 01 - 16 Tamper.

[04] HSM2108 01 - 15 Tamper.

[05] HSM2300 01 - 04 Tamper.

[06] HSM2204 01 - 04 Tamper.

[08] HSM2208 01 - 16 Tamper.

[09] HSM2955 Tamper.

[10] Alt Comm Tamper.

[11] HSM3408 Tamper.

[12] HSM3204CX Tamper.

[13] HSM3350 Tamper.

Trouble 11 – Communications:

[01] TLM: Telephone line disconnected from control panel.

[02] Receiver 01-04 FTC Trouble: Failure to communicate using programmed receiver paths.

[04] Alt. Comm Cellular: Radio or SIM card failure, low signal strength detected, or cellular network fault.

[05] Alt. Comm Ethernet: Ethernet connection unavailable. A valid IP address is either not programmed or the module was unable to get an IP with DHCP.

[06] Receiver 01-04 Trouble: Alternate communicator unable to initialize a receiver.

[07] Receiver 01-04 Supervision: Alternate communicator unable to communicate with a receiver.

[09] Alt. Comm Fault: The alternate communicator has stopped responding.

[10] Alt Comm FTC Trouble: The alternate communicator has failed to communicate an internal event not generated by the panel.

Trouble 12 – Not Networked Troubles:

[01] Zone 001-128 Not Networked: Generated when a zone becomes out of sync with the wireless network or has not been synchronized with the network after enrollment.

[02] Keypad 01-16 Not Networked: Generated when a keypad becomes out of sync with the wireless network or has not been synchronized with the network after enrollment.

[03] Siren 01-16 Not Networked: Generated when a siren becomes out of sync with the wireless network or has not been synchronized with the network after enrollment.

[04] Repeater 01-08 Not Networked: Generated when a repeater becomes out of sync with the wireless network or has not been synchronized with the network after enrollment.

[05] User 01 - 1000 Not Networked: Generated when a wireless key becomes out of sync with the wireless network or has not been synchronized with the network after enrollment.

Trouble 13 – AUX Troubles

[05] HSM2300: 1 A power supply AUX output voltage is out of range.

[06] HSM2204: A high current AUX output module output voltage is out of range.

[07] System Area: AUX output voltage is out of range.

[10] HSM3408: The 8 zone expander AUX output voltage is out of range.

[11] HSM3204CX: The corbus repeater AUX output voltage is out of range.

[12] HSM3350 AUX 1 Trouble: 3 A power supply AUX output voltage is out of range.

[13] HSM3350 AUX 2 Trouble: 3 A power supply AUX output voltage is out of range.

IMPORTANT!

Ensure you have the following information available before contacting Customer Support :

• Alarm controller type and version, (e.g., HS3032, 1.0):

Note: Version number can be accessed by entering [*][Installer Code] [900] on any keypad. This information is also located on a sticker on the printed circuit board.

• List of modules connected to control panel, (e.g., HSM2108, HSM2HOSTx etc.).

Specifications

Zone Configuration

- 32 or 128 wireless zones supported and up to 8 hardwired zones available on the controller
- 41 zone types and 15 programmable zone attributes
- Zone configurations available: normally closed, single EOL resistor, DEOL resistor, and TEOL resistor.
- Hardwired zone expansion (fully supervised) available using the model HSM2108 or HSM3408 (eight zone expander module)
- Wireless zone expansion (fully supervised) available using the HSM2Host 2-way wireless integration module operating at 915 MHz (North America), 433 MHz (Europe) and 912-919 MHz (international)

Access Codes

- Up to 1003 access codes: 1000 (level 2-EN), one installer code (level 3-EN), one maintenance code, and one guard code.
- Programmable attributes for each user code
- Access codes are either 4, 6 or 8 digits in length, depending on the setting of programming section [041]. Duplicate codes are not valid

Note: For EN50131-1 Grade 2 compliant systems using 100 access codes or less, 6 digit codes must be used. If using more than 100 access codes, 8 digits codes must be used.

For EN50131-1 Grade 3 compliant systems 8 digits codes must be used.

Warning Device Output

- 2 remote, wireless indoor/outdoor warning devices supported: models PGX901 (indoor), PGX911 (outdoor) (X=4, 8, or 9)
- Programmable as steady, pulsed or temporal three (as per ISO8201) and temporal four (CO alarm) output
- Warning device sounds alarms in the following priority: fire, CO, burg

Note: For NFA2P certified systems the delay for operating the warning device shall be set to max. 10 min.

Memory

- CMOS EEPROM memory
- Retains programming and system status on AC or battery failure for 20 years min. (not verified by UL)

Power Supply - North America

- Power Supply:HS65WPSNA (cord connected) and HS65WPSNAS (hardwired, use in ULC Commercial Burg Security Level IV and ULC Commercial Fire Monitoring applications)
- Primary: 120 V AC, 60 Hz, Energy Efficiency Class VI
- Secondary: 18 V DC, 3.6 A Limited Power Source (LPS)
- Model HS65WPSNA mounted in the same enclosure or outside, cord connected
- Model HS65WPS mounted in the same enclosure, permanently connected

Power Supply - International

- Power Supply: HS65WP
- Primary: 220-230 V AC, 50 Hz, 1.7 A, Energy Efficiency Class VI
- Secondary: 18Vdc, 3.6A, LPS
- · Mounted in the same enclosure, permanently connected

Note: For installations using the power supply module mounted inside the cabinet, replace fuse only with the same type (20 mm) rated New fuse rating 250 V/3.15 A Slow Blow.

Regulated power supply:

- 3.6 A regulated, supervised
- Type A as per EN50131-6 Standard
- 2 A auxiliary supply, 12 V DC, -15% to +10%.
- FET protected for Bell, Aux+ and Battery terminals
- Reverse battery detection/protection
- Supervision for input power and low battery
- Normal and high current battery charge options
- Supervised battery charging circuit

Current draw (control panel board assembly):

• 120 mA (nominal)

Bell Output:

- 12V, 700mA supervised (1 k Ohm) bell output (current limited at 2 amps)
- Steady, Pulsed, Temporal 3 fire, Temporal 4 CO alarm cadences
- Bell open short circuit detection (software + hardware)

Aux+:

- Voltage range = 10.8-12.5V DC
- Current = 2 A (shared with Corbus R(ed) and PGM outputs)
- Output ripple voltage: 600 mVp-p max.
- Onboard programmable outputs:
 - PGM 1 100 mA switched programmable output
 - PGM 2 300 mA current-limited switched programmable output. 2-Wire smoke detectors (100 mA current limited) are supported using this PGM
 - PGM 3 300 mA switched programmable output
 - PGM 4 100 mA switched programmable output
 - Hardware PGM over current protection

Battery

- 12 V sealed lead acid, rechargeable
- Battery capacity: Refer to table "Aux Loading and Battery Selection" on page 26
- Maximum standby time: Refer to "Aux Loading and Battery Selection" on page 26 for each type of application.
- Recharging time to 80% 72 hours
- Recharging rate: 400 mA (12 hours max.), 700 mA (24 hour backup)
- Backup time: 24 hours (UL)
- Battery lifespan: 3-5 years
- Low battery trouble indication threshold 11.5 V DC
- Battery restore voltage 12.5 V
- Main board current draw (battery only):
 - HS3032/HS3128 (no alternate communicator) standby 100 mA DC
 - HS3032/HS3128, (including plug-in communicator) standby 120 mA DC
 - Transmit (plug-in communicator module) TBD DC
- Self-reseting FETs for short/overcurrent protection on the circuit board
- Internal clock locked to the internal Real Time Clock

Operating Environmental Conditions

- Temperature range: UL/ULC: 0°C to +49°C (32°F to 120°F), For EN50131 applications: -10°C to 55°C)
- Relative humidity: 5% to 93% RH non-condensing

Alarm Transmitter Equipment (ATE) Specification

- Digital dialer integral to the main control board
- Supports SIA and Contact ID
- Complies with TS203 021-1, -2, -3 Telecom equipment requirements and EN50136-1, EN50136-2, ATS, SP3, DP3 (when used in conjunction with Ethernet and/or Cellular paths).
- Optional plug-in cellular module (models 3G9080, 3H9080, LE9080 for UL/ULC and 3G9080-EU, GS9080 for EN50131 applications) can be installed in the same enclosure and configured as primary or back-up, with AES 128-bit encryption.
- Compliant with EN50136-1, EN50136-2 ATS configurations SP4, DP3.

System Supervision Features

The PowerSeries Pro continuously monitors a number of possible trouble conditions and provides audible and visual indication at the keypad. Trouble conditions include:

- AC power failure
- Zone trouble
- Fire trouble
- Telephone line trouble
- Communicator trouble
- Low battery condition
- RF jam
- AUX power supply fault
- Failure to communicate
- Module fault (supervisory or tamper)
- Power unit failure
- System overcurrent

Additional Features

- 2-way wireless device support
- Visual verification (images + audio)*
- Proximity tag support
- PGM scheduling
- Quick arming
- User, partition, module, zone and system labels
- Soak test*
- Programmable system loop response
- Keypad and panel software versions viewable through keypad
- Doorbell zone type
- Low battery PGM type

*Feature not evaluated by UL/ULC.

Programming Directory

This section provides a list of all available programming options in numerical order. To program, access Installer Programming mode by keying in [*][8] [Installer Code]. Use the scroll keys < > to navigate through the menus or jump directly to a specific section by keying in a section number and pressing [*]. Programming consists of toggling on and off options in each section or by populating data fields. Press [*] to select options and [#] to exit to the previous menu. For descriptions of all programming options and programming worksheets, refer to the PowerSeries Commercial Reference Manual.

✔= Default

Label Programming

000 - Language Selection (01) 001 - Zone Labels 001-128 - Zone Labels 1-128 064 - CO Alarm Message 065 - Fire Alarm Message 066 - Fail to Arm Event Message 067 - Alarm When Armed Event Message 100 - System Label 101-108 - Partition 1-8 Labels 201- 208 - Partition 1-8 Command Output Labels 001-004 - Command output 1-4 Labels 601-604 - Schedule 1- 4 Labels 801 - Keypad Labels 001-016 Keypad 1-16 Labels 802 - Zone Expander Labels 001-015 - Zone Expander 1-15 Labels 803 - Output Expander Labels 001-016 Output Expander 1-16 Labels 804 - 8 Zone Expansion Label 001-015 - 8 Zone Expansion 1-15 Labels 806 - HSM2HOST Label 808 - 2-Way Audio Module Label 809 - Power Supply Label 001-004 Power Supply 1-4 Label 810 - High Current Output Supply Label 001-004 High Current Output 1-4 Label 811 - 3A Power Supply Label 001-004 3 A Power Supply 1-4 Label 812 - Corbus Repeater Label 001-008 Corbus Repeater 1-8 Label 815 - Alternate Communicator Label 820 - Siren Label 001-016 Siren 1-16 Label 821 - Repeater Label 001-008 Repeater 1-8 Label 999 - Default Labels Zone Type 001 Zone Type 001-128 Zone Types (000) 000 - Null Zone 001 - Delay 1 002 - Delay 2 003 - Instant 004 - Interior 005 - Interior Stay/Away

006 - Delay Stay/Away 007 - Delayed 24-Hour Fire 008 - Standard 24-Hour Fire 009 - Instant Stay/Away 010 - Interior Delay 011 - Day Zone 012 - Night Zone 016 - Final Door Set 017 - 24-Hour Burglary 018-24-Hour Bell/Buzzer 023 - 24-Hour Supervisory 024 - 24-Hour Supervisory Buzzer 025 - Auto Verify Fire 027 - Fire Supervisory 040 - 24-Hour Gas 041 - 24-Hour CO 042 - 24-Hour Holdup 043-24-Hour Panic 045 - 24-Hour Heat 046-24-Hour Medical* 047 – 24-Hour Emergency 048 - 24-Hour Sprinkler 049 - 24-Hour Flood 051 - 24-Hour Latching Tamper 052 - 24-Hour Non-Alarm 056 – 24-Hour High Temperature 057 - 24 Hour Low Temperature 060 - 24-Hour Non-Latching Tamper 061 - 24-Hour Masking 066 - Momentary Keyswitch Arm 067 - Maintained Keyswitch Arm 068 - Momentary Keyswitch Disarm 069 - Maintained Keywsitch Disarm 071 - Doorbell Zone 072 - Push to Set 002 - Zone Attributes 001-128 (see PowerSeries Pro reference manual for defaults) 1-Bell Audible 2 - Bell Steady 3 - Door Chime 4 - Bypass Enabled 5-Force Arm 6-Swinger Shutdown 7 - Transmission Delay 8 - Burglary Verification 9 - Normally Closed EOL

11 – Double EOL 12 - Fast Loop/Normal Loop Response 13 - Zone 2-way Audio Activation 14 - Holdup Verification 15 - Triple EOL **004 EOL Resistance** 001 - Single EOL 002 - Double EOL 003 - Triple EOL System Times 005 System Times 000 - System Area Bell Cutoff (004 min.) Bell Delay Time (000 min.) **Burglary Verification Timer** (060 sec.) Holdup Verification Timer (008 sec.) Zone Loop Response (250 ms) Automatic Clock Adjust (060 sec.) 001-008 System Times - Partition 1-8 Entry Delay 1 (030 sec.) Entry Delay 2 (045 sec.) Exit Delay (120 sec.) Settle Delay (010 sec.) 900 - Bell Delay Partition Mask (Y,Y,Y,Y,Y,Y,Y,Y,Y)901 - Daylight Savings Begin: Month (003) Week (002) Day (000) Hour (002) Increment (001) 902 - Daylight Savings End Month (011) Week (001) Day (000) Hour (002) Decrement (001) Access Codes **006 Installer Defined Access Codes** (4/6/8-digit decimal) 001 - Installer Code (55555555) 002 - Master Code (12345678) 003 - Maintenance Code (AAAA0000) 004 - Guard Code (AAAA0000) 005 - Code Version (AAAA0000) **PGM Programming** 007 - PGM Programming 000 - Main Bell Partition Assignment

001-324 - PGM 1-324 Partition Assignment (default: partition 1) 1-8 - Partition 1-8 008 - PGM Timer Programming 000 - PGM Timer-Minutes or Seconds (seconds) 001-324 - PGM 1-324 Timer (005) 009 - PGM Types 001-324 - PGM 1-164 Type Assignment (default: PGM1=121, PGM2=156, 3-164=101) 100 - Null PGM 101 - Burg and Fire Bell Follower 102 - Delayed Fire and Burg 103 - Sensor Reset [*][7][2] 104 - 2-Wire Smoke 107 - External Siren 109 - Courtesy Pulse 111 - Keypad Buzzer Follow 114 - Ready To Arm 115 - System Armed Status 116 - Away Armed Status 117 - Stay Armed Status 120 - Away Armed with no Zone Bypass Status 121 - Command Output 1 122 - Command Output 2 123 - Command Output 3 124 - Command Output 4 129 - Partition Status Alarm Memory 132 - Holdup Output 134 - 24Hr Silent Input 135 - 24Hr Audible Input 146 - TLM and Alarm 147 - Kissoff 148 - Ground Start 149 - Alternate Communicator 155 - System Trouble 156 - Latched System Event 157 - System Tamper 161 - DC Trouble 165 - Prox Used 166 - Partition Prox Used 175 - Bell Status and Programming Access Output 176 - Remote Operation 184 - Open After Alarm

2 – Partition 2

3 – Partition 3

4 - Partition 4

5 – Partition 5

6 – Partition 6

7 – Partition 7

8 – Partition 8

1 - Partition 1

10 - Single EOL

200 - Zone Follower 201 - Follower-Zones 1-8 202 - Follower-Zones 9-16 203 - Follower-Zones 17-24 204 - Follower-Zones 25-32 205 - Follower-Zones 33-40 206 - Follower-Zones 41-48 207 - Follower-Zones 49-56 208 - Follower-Zones 57-64 209 - Follower-Zones 65-72 210-Follower-Zones 73-80 211 - Follower-Zones 81-88 212 - Follower-Zones 89-96 213 - Follower-Zones 97-104 214 - Follower-Zones 105-112 215 - Follower-Zones 113-120 216 - Follower-Zones 120-128 **010 PGM Attributes** 000 - Main Bell Mask Fire Alarm 🗸 CO Alarm 🗸 Burglary Alarm 🖌 24-Hour Flood Alarm 🗸 Bell Squawks 🗸 001-324 PGM 1-324 Attributes 100 - Null PGM 101 - Fire and Burglary 01 – True Output ✔ 102 - Delay Fire and Burglary 01 – True Output ✔ 103 - Sensor Reset [*][7][2] 01 – True Output 🗸 02 - Timed Output 03 - Code Required 107 - External Siren 01 – True Output 🗸 109 - Courtesy Pulse 01 – True Output ✔ 111 - Keypad Buzzer Follow 01 – True Output ✔ 02 - Timed Output 09 – Entry Delay 🗸 10 – Exit Delay ✔ 11 – Door Chime ✔ 12 – Keypad Buzzer Zone ✔ 13 – Audible Exit Fault 🗸 14 – Auto-Arm Pre-Alert 🖌 114 - Ready To Arm 01 – True Output ✔ 115 - Armed Status 01 – True Output 🗸 116 - Armed Away Mode 01 – True Output ✔ 117 - Armed Stay Mode 01 – True Output 🗸 120 - Away Armed No Bypass 01 – True Output 🗸 121 - 124 - Command Output 1-4 01 – True Output 🗸 02 – Timed Output ✔ 03 – Code Required ✔ (121 only) 129 - Partition Status Alarm Memory 01 – True Output 🗸 132 - Holdup Output

01 – True Output 🗸

02 - Timed Output 146 - TLM and Alarm 01 – True Output 🗸 147 - Kissoff Output 01 – True Output 🗸 148 - Ground Start 01 – True Output ✔ 149 - Alternate Communicator 01 – True Output ✔ 02 – Timed Output ✔ 04 - Fire Alarm 05 - Panic Alarm 06 - Burglary Alarm 07 - Open/Close 08 - Zone Auto Bypass 09 - Medical Alarm 10 - Burglary Verified 11 - Open after Alarm 12 - Emergency Alarm 13 - Duress Alarm 14 - Holdup Verified 155 - System Trouble 01 – True Output 🖌 02 - Timed Output 04 – Service Required 🖌 05 – Loss of Clock ✔ 06 – DC Trouble ✔ 07 – Bus Voltage ✔ 08 – AC Trouble ✔ 09 – Device Fault 🗸 10 – Device Battery ✓ 11 – Device Tamper ✔ 12 – RF Delinquency ✔ 13 – Module Supervisory ✔ 14 – Module Tamper ✔ 15 – Communications 🗸 16 – Not Networked ✔ 156 - Latched System Event 01 – True Output 🗸 02 - Timed Output 04 – Fire Alarm ✔ 05 – Panic Alarm 🗸 06 – Burglary Alarm 🖌 07 – Medical Alarm ✔ 08 – Supervisory 🗸 09 – Priority Event 🗸 10 – Holdup ✔ 11 – Duress 🗸 12 – Emergency ✔ 13 – Fire Supervisory ✔ 14 – Fire Trouble ✔ 15 – CO Alarm ✔ 157 - System Tamper 01 – True Output ✔ 02 - Timed Output 09 – Module Tamper 🗸 10 – Zone Tampers ✔ 161 - DC Trouble 01 – True Output ✔ 02 - Timed Output 09 – Battery Low 🖌 10 – Battery Absent ✔ 165 - Prox Used 01 – True Output 🖌 166 - Partition Prox Used 01 – True Output 🗸 175 - Bell Prog Access

01 – True Output 🖌 176 - Remote Operation 01 – True Output 🖌 184 - Open After Alarm 01 – True Output 🖌 02 – PGM Timer ✔ 200 Zone Follower - Single Zone 01 – True Output ✔ 02 - Timed Output 04 – Latching ✓ 05 - Follow Alarm 201- 216 Zone Follow Zones 1-128 01 – True Output ✔ 02 - Timed Output 04 – Latching ✔ 05 - Follow Alarm 09 – Zone Terminal 1 🗸 10 – Zone Terminal 2 ✔ 11 – Zone Terminal 3 ✔ 12 – Zone Terminal 4 ✔ 13 – Zone Terminal 5 ✔ 14 – Zone Terminal 6 ✔ 15 – Zone Terminal 7 ✔ 16 – Zone Terminal 8 ✔ 09-016 - Zone Terminal 1-16 **011 PGM Configuration Options** 001-324 - PGM 1-324 Configuration Zone Follower by Zone Proximity Tag Used Command Output Schedules 012 System Lockout (attempts/min.) Keypad Lockout Attempts (000)Keypad Lockout Duration (000)Remote Lockout Attempts (006)Remote Lockout Duration (060)System Options 013 System Options 1 1-NC Loop/EOL 2-DEOL/SEOL 3 - Show All Troubles when Armed 🗸 4 - Tamper/Faults Open Zone 5 - Auto-Arm Schedule in [*][6] 1 6 – Audible Exit Fault 🗸 7-Event Buffer Follows Swinger ~ 8 - Temporal Three Fire Signaling 014 System Options 2 1-Bell Squawk 2-Bell Squawk Auto-Arm 3 - Bell Squawk on Exit 4-Bell Squawk on Entry 5 - Bell Squawk on Trouble 6 - Reserved 7 - Exit Delay Termination 8 - Fire Bell Continues 015 System Options 3 1 – [F] Key ✔ 2-[P] Key Annunciation 3 - Quick Exit

4 - Quick Arming/Function Key ~ 5-Reserved 6 - Master Code Not User Changeable 7 - Telephone Line Monitor Enable 🗸 8 – TLM Audible When Armed ✔ 016 System Options 4 1 – AC Trouble Display ✔ 2 - AC Trouble Light Flashes 3 - Keypad Blanking 4 - Keypad Blanking Requires Code 5 – Keypad Backlighting 🖌 6 - Power Save Mode 7 - Bypass Display When Armed 8 - Keypad Tampers Enabled 017 System Options 5 1 – Chime On Opening 🗸 2 - Chime On Closing 3 - RF Jam Audible 4 - Multi-Hit 5-Late to Close 6 - Daylight Savings Time 7 - Silence Chime During Quick Exit Delay 8-Bell Squawk on Away Arm/Disarm Only 018 System Options 6 1-Test Transmission Exception 2-Real-Time Bypass Reporting 3 - Report Bypass for Stay Away Zones 4 - Auto Bypass Report 5 - Keypad Buzzer Alarm 6-Reserved 7 - Exit Delay Restart 8 – AC Fail Trouble Beeps 🗸 019 System Options 7 1 - Audible Wireless Zone Fault 2 - Latching Troubles 3-Reserved 4 - R-Button 5 - Audible Bus Fault 6 - Duress Codes 7 – Temperature in Celsius ✔ 8-Reset After Zone Activation 020 System Options 8 1 - Access Code Entry During Entry Delay 2-EU Entry Procedure 3 – [*][8] Access While Armed 4-Remote Reset 5 - Engineer's Reset 6 - Keyswitch Disarming During Entry Delay 7-Installer Access and DLS 8 - Troubles Inhibits Arming 021 System Options 9 1 - Trouble Display 2 - Keypad Blanking while armed 3-Reserved 4 - Ready Display 5 - PGM Keypad Blanking 6 - Armed Display 7 - Open Cancels Arming

8 - Audible Exit Delay for Stay Arming 022 System Options 10 1-[F] Key Option 2-Reserved 3-Reserved 4 - Test Transmission Counter in Hours 5 - Away to Stay Toggle 6-2-Way Full Duration 7 - Trouble Beeps Are Silent 8-Keyswitch Arms in Away Mode 023 System Options 11 1-Ready LED Flash for Force Arm 2-Access Code Required for [*] [*] 3 - Tamper/Fault Detection 4 - Access Code Required for [*] [1] 5 - Access Code Required for [*] [2] 6 - Access Code Required for [*] [3] 7 - Access Code Required for [*] [4] 8-[*][6] Accessibility 024 System Options 12 1-Reserved 2 - Reserved 3 - AC/DC Inhibits Arming 4 - Tamper Inhibit Arm 5 - Real Time Clock 6-Reserved 7-Reserved 8-DLS Disconnect 025 System Options 13 1 - European Dial 2 – Force Dial ✔ 3 - Test Transmission Counter in Minutes 4-Warm Start Indication 5-ID Tone 6-Tone Generated-2100Hz 7-DLS Window 8-FTC Audible Bell 040 User Authentication 01 - User Code or Proximity Tag 02 - User Code and Proximity Tag **041 Access Code Digits** 00 – 4-Digit Access Codes ✔ 01-6-Digit Access Codes 02-8-Digit Access Codes **042** Event Verification 01 - Burglary Verified Counter (002)02 - Holdup Counter (002) 03 - Burglary Verification Selection 001 – Police Code ✔ 002 - Cross Zoning Path 003 - EU Sequential Detection

151-158 Partition 1-8 Auto-Arm/Disarm 001 - Auto-Arming Times (9999) 24-Hour Sunday Monday Tuesday Wednesday Thursday Friday Saturday 002 - Auto-Disarm Times (9999) 24-Hour Sunday Monday Tuesday Wednesday Thursday Friday Saturday 003 - Auto-Disarming Holiday Schedule Holiday 1 Holiday 2 Holiday 3 Holiday 4 004 - Auto-Arming Pre-Alert (004) 005 - Auto-Arming Postpone Timer (000) 006 - No Activity Arming Timer (000)007 - No Activity Arming Pre-Alert Timer (001) **200 Partition Mask** 001 - Partition 1 to 8 Enable Mask 1 – Partition 1 🗸 2 - Partition 2 3 - Partition 3 4 - Partition 4 5 - Partition 5 6 - Partition 6 7 - Partition 7 8-Partition 8 201-208 Partition 1-8 Zone Assignment 001 – Zone 1-8 ✔ 002 – Zn 9-16 ✔ 003 - Zn 17-24 004 - Zn 25-32 005 - Zn 33-40 006 - Zn 41-48 007 - Zn 49-56 008 - Zn 57-64 009 - Zn 65-72 010 - Zn 73-80 011 - Zn 81-88 012 - Zn 89-96 013 - Zn 97-104 014 - Zn 105-112 015 - Zn 113-120 016 - Zn 121-128 300 Panel/Receiver Communications 001-004 Receiver 1-4 01 – Phone Line ✔

03 - Alt Comm Receiver 1 -Ethernet 1 04 - Alt Comm Receiver 2 -Ethernet 2 05 - Alt Comm Receiver 3 -Cellular 1 06 - Alt Comm Receiver 4 -Cellular 2 **301 Phone Number Programming** 001 - 004 Phone Number 1 -4 Programming (DFFF...32-digit) 304 Call Waiting Cancel String (DB70EF) **Event Reporting 307 Zone Reporting** 001-128 Zone Reporting for Zones 1-128 01 – Alarm ✔ 02 – Alarm Restore ✔ 03 – Tamper ✔ 04 – Tamper Restore 🗸 05 – Fault ✔ 06 - Fault Restore 🖌 **308 Event Reporting** 001 - Miscellaneous Alarm 1 01 – Duress Alarm 🗸 02 – Opening After Alarm 🖌 03 – Recent Closing Alarm 🗸 04 - Zone Expander Supervisory Alarm 🗸 05 - Zone Expander Supervisory Alarm Restore 06 – Burglary Verified ✔ 07 – Burg Not Verified Alarm 08 – Alarm Cancel 🖌 002 - Miscellaneous Alarm 2 01 - Holdup Verified Alarm 011 - Priority Alarms 01 - Keypad Fire Alarm-F Key 🗸 02 – Keypad Fire Restore 🖌 03 - Keypad Medical Alarm-M Key 🖌 04 - Keypad Medical Restore 05 - Keypad Panic Alarm (P) 06 – Keypad Panic Restore 🖌 07 - Auxiliary Input Alarm 08 - Aux Input Alarm Restore 021 - Fire Alarms 1 03 – PGM 2 2-Wire Alarm ✔ 04 - PGM 2 2-Wire Restore 101 - Tamper Events 03 – Module Tamper ✔ 04 - Module Tamper Restore 05 – Keypad Lockout 🗸 07 – Remote Lockout 🗸

01 – User Closing ✔ 02 – User Opening ✔ 03 - Future Use 04 - Future Use 05 – Special Closing ✔ 06 – Special Opening ✔ 07 – Keyswitch Opening ✔ 08 – Keyswitch Closing ✔ 202 - Open/Close Events 2 01 – Automatic Closing ✔ 02 – Automatic Disarm 🗸 03 - Auto Arm Cancellation/Postpone 🗸 211 - Miscellaneous Open/Close Events 01 - Late to Close 🗸 02 - Late to Open ✔ 05 – Exit Fault 🗸 221 - Bypass Events 01 - Auto Zone Bypass 02 - Auto Zone Unbypass 03 - Partial Closing 🗸 301 - Panel Events 1 01 - Panel AC Fail Trouble 1 02 - Panel AC Fail Restore 1 03 – Panel Low Battery ✔ 04 - Panel Low Battery Restore 🗸 05 – Panel Battery Absent ✔ 06 - Panel Battery Absent Trouble Restore 🗸 07 – Power Unit Failure ✔ 08 - Power Unit Failure Restore 🗸 302 - Panel Events 2 01 – Bell Circuit Trouble ✔ 02 – Bell Circuit Restore ✔ 03 - Telephone Line Trouble ~ 04 - Telephone Line Trouble Restore 🗸 05 – Auxiliary Trouble ✔ 06 - Auxiliary Trouble Restore 🗸 07 – Overcurrent Trouble ✔ 08 – Overcurrent Restore 🗸 305 - Panel Events 5 03 - PGM 2 2-Wire Trouble ~ 04 - PGM 2 2-Wire Restore ~ 311 - Maintenance Events 1 01 – RF Jam Trouble ✔ 02 - RF Jam Trouble Restore ~ 03 – Fire Trouble ✔ 04 – Fire Trouble Restore ✔ 05 – Cold Start ✔ 06 – Delinquency ✔ 07 – Self Test Trouble ✔ 08 - Self Test Trouble Restore 🖌 312 – Maintenance Events 2 01 – Installer Lead IN 🗸 02 – Installer Lead OUT ✔

201 - Open/Close Events 1

02 - Alt Comm Auto Routing

03 – DLS Lead IN 🖌 04 – DLS Lead OUT 🖌 05 - SA Lead IN 06 - SA Lead OUT 07 - Event Buffer 75% Full 313 - Maintenance Events 3 01 - Firmware Update Begin 02 - Firmware Update Success 🗸 03 – Firmware Update Fail 🗸 314 - Maintenance Events 4 01 – Gas Trouble 🗸 02 – Gas Trouble Restore 🖌 03 – Heat Trouble ✔ 04 – Heat Trouble Restore 🖌 05 – Freeze Trouble ✔ 06 - Freeze Trouble Restore 1 07 – Probe Disconnected ✔ 08 - Probe Disconnect Restore 🗸 321 - Receiver Events 02 - Receiver 1 FTC Restore ~ 04 - Receiver 2 FTC Restore 06 - Receiver 3 FTC Restore 08 - Receiver 4 FTC Restore 331 - Module Events 1 01 – Module AC Trouble ✔ 02 - Module AC Trouble Restore 🗸 03 - Module Battery Trouble 04 - Module Battery Trouble Restore 🗸 05 - Module Battery Absent 06 - Module Battery Absent Restore 🖌 07 - Module Power Unit Failure 🗸 08 - Module Power Unit Failure Restore 🗸 332 - Module Events 2 01 – Module Low Voltage 🗸 02 - Module Low Voltage Restore 🗸 03 – Module Supervisory ✔ 04 - Module Supervisory Restore 🗸 05 – Module Aux Trouble ✔ 06 - Module Aux Trouble Restore 🗸 07 - Module Power Unit Failure 🗸 08 - Module Power Unit Restore V 335 - Module Events 5 01 – Output 1 Fault 🗸 02 - Output 1 Fault Restore

351 - Alternate Communicator 1

01 - Alt. Comm. Module Comm Fault 🖌 02 - Alt. Comm. Module Comm Fault Restore 🗸 07 - Alt. Comm. Radio/SIM Failure 🗸 08 - Alt. Comm. Radio/SIM Failure **V** Restore 352 – Alternate Communicator 2 01 - Alternate Comm. Network Fault 🗸 02 - Alt. Comm. Network Fault Restore 🖌 05 – Alt. Comm. Ethernet ✔ 06 - Alt. Comm. Ethernet Trouble Restore 🖌 354 - Alternate Communicator 4 01 - Alt. Comm Receiver 1 V 02 - Alt. Comm Receiver 1 Restore 🗸 03 - Alt. Comm Receiver 2 ~ 04 - Alt. Comm Receiver 2 Restore V 05 - Alt. Comm Receiver 3 1 06 - Alt. Comm Receiver 3 Restore 🗸 07 - Alt. Comm Receiver 4 ~ 08 - Alt. Comm Receiver 4 Restore 🗸 355 - Alternate Communicator 5 01 - Alt. Comm Receiver 1 Supervision Failure 🗸 02 - Alt. Comm Receiver 1 Supervision Failure Restore ~ 03 - Alt. Comm Receiver 2 Supervision Failure 🗸 04 – Alt. Comm Receiver 2 Supervision Failure Restore 05 - Alt. Comm Receiver 3 Supervision Failure 🗸 06 - Alt. Comm Receiver 3 Supervision Failure Restore 07 - Alt. Comm Receiver 4 Supervision Failure 🗸 08 - Alt. Comm Receiver 4 Supervision Failure Restore ~ 361 - Wireless Device Events 01 – Device AC Fail 🖌 02 – Device AC Restore 🖌 03 – Device Low Battery 🖌 04 - Device Low Battery Restore 🗸 05 – Device Fault ✔ 06 – Device Fault Restore 🖌 401- System Test Events 01 – Walk Test Start 🗸 02 – Walk Test End 🗸 03 - Periodic Test Transmission 🗸

04 - Periodic Test Transmission with Trouble \checkmark 05 – System Test ✔ Communications **309 System Call Direction** 001- Maintenance Events 1 – Receiver 1 ✔ 2 - Receiver 2 3 - Receiver 3 4 – Receiver 4 002 - Test Transmission Events 1 – Receiver 1 🗸 2 - Receiver 2 3 - Receiver 3 4 - Receiver 4 **310 Account Codes** 000 - System Account Code (FFFF) 001-008 - Partition 1-8 Account Code (FFFF) 311-318 Partition 1-8 Call Direction 001 - Partition Burglary Alarm/Restore Call Direction 1 – Receiver 1 🗸 2-Receiver 2 3 – Receiver 3 4-Receiver 4 002 - Partition Tamper/Restore Call Direction 1 – Receiver 1 🖌 2 - Receiver 2 3 – Receiver 3 4 - Receiver 4 003 - Partition Opening/Closing Call Direction 1 – Receiver 1 ✔ 2-Receiver 2 3-Receiver 3 4-Receiver 4 350 Communicator Formats (04 -SIA) 001- Communicator Format -Receiver 1 002- Communicator Format -Receiver 2 003- Communicator Format -Receiver 3 004- Communicator Format -Receiver 4 **377 Communication Variables** 001 - Swinger Shutdown Attempts - Alarms and Restore (003) - Tampers and Restore (003) - Maintenance and Restore (003)002 - Communication Delays - Zone Delay (000 sec.) - AC Failure Communication Delay (030 min./hrs.) - TLM Trouble Delay (010 sec. x 3) - WLS Zone Low Battery Transmission Delay (007 days) - Delinquency Transmission Delay (030 hours/days)

- Communications Cancel Window (000 003 - Periodic Test Transmission Cycle (030 hrs./days) 004 - Periodic Test Transmission Time of Day (9999) 011 - Maximum Dialing Attempts (005)012 - PSTN Delay (003 sec.) 013 - Delay Between Force Attempts (020 sec.) 014 - Post Dial Wait for Handshake (040 sec.) 015 - T-Link Wait for Ack (060 sec.) 016 - IP/Cellular Fault Check Timer (010) **380** Communicator Option 1 1 – Communications Enabled 🗸 2-Restore on Bell Timeout 3 - Pulse Dialing 4 - Pulse Dial After 5th Attempt 5 - Parallel Communications 6 – Alternate Dial 🗸 7-Reduced Dialing Attempts 8 - Activity Delinquency 381 Communicator Option 2 1-Keypad Ringback 2-Bell Ringback 4 - Closing Confirmation 8 - Communications Priority 382 Communicator Option 3 2-Walk Test Communication 4 - Call Waiting Cancel 5 - ADC Communicator Enable 6-AC Failure TX in Hours 8 - Tamper Limit **383** Communicator Option 4 1 - Phone Number Account Code 2-6-Digit Account Code 3 - Ethernet Enable 4 - Cellular Enable 5 - Communicate FTC Events **384 Communicator Backup Options** 2-Backup Options - Receiver 2 V 3 - Backup Options - Receiver 3 4 - Backup Options - Receiver 4 385 Audio Module Talk/Listen Mask 1-Talk/Listen on Phone Number 1 2 - Talk/Listen on Phone Number 2 3 - Talk/Listen on Phone Number 3 4 - Talk/Listen on Phone Number **DLS Programming 401 DLS/SA Options** 1 - Double Call 2 – User Enables DLS 🖌 3-DLS Callback 4 - User Call Up 6 - Panel Call-Up and Baud Rate 7 – Alt. Comm DLS 🗸

402 DLS Phone Number

Programming (31-digit decimal)

403 DLS Access Code (212800) 404 DLS/SA Panel ID (12-digit hex; **Default: Integration ID)** 405 PSTN Double Call Timer (060 sec.) 406 PSTN Number of Rings to Answer On (000)(TIS 008) 407 SA Access Code (FFFFFF) **410 Automatic DLS Options** 001 - Automatic DLS Toggle Options 1 - Periodic DLS 3 - DLS on Event Buffer 75% Full 8-DLS On Programming Change 002 - Periodic DLS Days (000 days) 003 - Periodic DLS Time (0000) 007 - Delay Call Window - Delay Call Window Start (0000)- Delay Call Window End (0000)560 Virtual Inputs (000) 001 - 032 - Virtual Input 1-32 **Schedule Programming** 101 – Interval 1 Start Time (0000) 102 - Interval 1 End Time (0000) 103 - Interval 1 Days Assignment 01 - Sunday 02 - Monday 03 - Tuesday 04 - Wednesday 05 - Thursday 06 - Friday 07 - Saturday 104 - Interval 1 Holiday Assignment 09 - Holiday 1 10 – Holiday 2 11 - Holiday 3 12 - Holiday 4 201 - Interval 2 Start Time (0000) 202 - Interval 2 End Time (0000) 203 - Interval 2 Days Assignment 01 - Sunday 02 - Monday 03 - Tuesday 04 - Wednesday 05 - Thursday 06 - Friday 07 - Saturday 204 - Interval 2 Holiday Assignment 09 - Holiday 1 10 – Holiday 2 11 - Holiday 3 12 – Holiday 4 301 - Interval 3 Start Time (0000) 302 - Interval 3 End Time (0000) 303 - Interval 3 Days Assignment 01 - Sunday 02 - Monday 03 - Tuesday 04 - Wednesday

05 - Thursday

06 - Friday 07 - Saturday 304 - Interval 3 Holiday Assignment 09 - Holiday 1 10 - Holiday 2 11 - Holiday 3 12 - Holiday 4 201 - Interval 2 Start Time (0000) 402 - Interval 4 End Time (0000) 403 - Interval 4 Days Assignment 01 - Sunday 02 - Monday 03 - Tuesday 04 - Wednesday 05 - Thursday 06 - Friday 07 - Saturday 404 - Interval 4 Holiday Assignment 09 - Holiday 1 10 - Holiday 2 11 - Holiday 3 12 - Holiday 4 711-714 Holiday Group 1-4 001 - 099 Holiday Group 1-4 Date 1-99 (000000, MMDDYY) **Audio Station Programming 802** Audio Station Assignment 001 - 128 - Station Assignment 1 128 (00) 600 - 2-Way Audio Trigger Option 01 - Tampers 03 – [A] Key Alarm ✓ 04 – [P] Key Alarm ✓ 05 – Duress Alarm ✔ 06 – Opening After Alarm ✔ 07 - Future Use 08 - Zone Supervision Alarm 603 - 2-Way Audio Control Option 1 01 - Future Use 02 - Listen to all zones / Listen to zones in alarm 🗸 03 - Future Use 04 - Siren Active During 2-Way Audio 05 - Hang-Up Auto Detection 06 - User Call-In 07 - Future Use 08-2-Way Audio Initiated by CS 🗸 605 - Record Options 01 – Audio Capture Enable 🖌 02 - Erase on FTC 606 - Audio Station Record Control Option 1 01 - Audio Station 1 Record 02 - Audio Station 2 Record 03 - Audio Station 3 Record 04 - Audio Station 4 Record

610 - Call Back / Recovery Window Duration (05) 611 - Call Back Acknowledge code (999999) 612 - Answering Machine Bypass (00)613 - Double Call Timer (030) 614 - Number of Rings to Answer (00)615 - Audio Duration (90 sec.) 616 - Record Time (105 sec.) 617 - Erase Timer (15 min.) 620 - Audio Station Tamper Option 1 01 - Audio Station 1 Tamper 02 - Audio Station 2 Tamper 03 - Audio Station 3 Tamper 04 - Audio Station 4 Tamper Wireless Programming **804 Wireless Programming** 000 - WLS Device Enrollment Zones (3-digit decimal) Zone Type (2-digit decimal) Partition Assignment Zone Label (LCD only) WLS Keys Partition Assignment User Assignment Sirens Partition Assignment Siren Label (LCD only) Keypads Keypad Assignment Keypad Label (LCD only) Repeaters Repeater Label (LCD only) 001 - 128 - Configure Wireless Zones Refer to the installation instructions provided with the HSM2Host for more wireless programming options. 850 Cellular Signal Strength **851** Communicator Programming 001 - Ethernet IP Address 002 - Ethernet IP Subnet Mask 003 - Ethernet Gateway IP Address 004 - Receiver Supervision Interval 005 - System Toggle Options 1 01 - Receiver 1 Supervised 02 - Receiver 3 Supervised 03 - Heartbeat 1 04 - Cell Primary 05 - Redundant Communications 06 - Remote Firmware Upgrade 🗸 07 – Test TX 08 - Low Signal Mask 006 - System Toggle Options 2 01 - Ethernet Receiver 1 Enabled 🗸 02 - Ethernet Receiver 2

04 - Cellular Receiver 3 Enabled 🗸 05 - Cellular Receiver 4 Enabled 🗸 06 - Reserved 07 - DLS Over Cellular Enabled 🗸 08 - Network Trouble Suppression 007 - DNS Server IP 1 008 - DNS Server IP 2 010 - System Toggle Options 3 01 - 2-Way Audio Over Cellular 02-Visual Verification Default 03 - Video On Demand 04 - Receiver Group 012 - DLS Incoming Port 013 - DLS Outgoing Port 015 - DLS Call-Up IP 016 - DLS Call-Up Port 018 - Receiver Group Pair 020 - Time Zone 025 - Radio Activation Restore 026 - Receiver 1 Test Transmission 027 - Receiver 2 Test Transmission 028 - Receiver 3 Test Transmission 029 - Receiver 4 Test Transmission 030 - FTC Restore 095 - DLS SA Incoming Local Port 096 - DLS SA Outgoing Local Port 101 - Receiver 1 Account Code 102 - Receiver 1 DNIS 103 - Receiver 1 IP Address 104 - Receiver 1 UDP Remote Port 105 - Receiver 1 UDP Local Port 106 - Receiver 1 Domain Name 111 - Receiver 2 Account Code 112 - Receiver 2 DNIS 113 - Receiver 2 IP Address 114 - Receiver 2 UDP Remote Port 115 - Receiver 2 UDP Local Port 116 - Receiver 2 Domain Name 124 - Ethernet Test Transmission Time 125 - Ethernet Test Transmission Cycle 201 - Receiver 3 Account Code 202 - Receiver 3 DNIS 203 - Receiver 3 IP Address 204 - Receiver 3 UDP Remote Port 205 - Receiver 3 UDP Local Port 206 - Receiver 3 Domain Name 211 - Receiver 4 Account Code 212 - Receiver 4 DNIS 214 - Receiver 4 UDP Remote Port

Enabled 🗸

215 - Receiver 4 UDP Local Port 216 - Receiver 4 Domain Name 221 - Cellular Public Access Point Name 222 - Cellular Login User Name 223 - Cellular Login Password 224 - Cellular Test Transmission Time of Day 225 - Cellular Test Transmission Cycle 226 - Network Trouble Delay 227 - Voice Call Timeout 228 - Voice Call Back Time 229 - Voice Call Back Number 422 - Integration Identification Number 423 - Session 1 Integration Access Code 424 - Session 1 SMS Label 425 - Session 1 Integration Toggle Options 2 01 - Integration Over USB 02 - Integration Over Cellular 03 - Integration Over Ethernet 04-Reserved 05 - Integration Protocol 06 - Reserved 07 - Reserved 08-Reserved 426 - Session 1 Integration Toggle Options 3 01 - UDP Polling 02 - TCP Polling 03 - Real-time Notification 04 - Notification Follows Pool 05 - Firewall IP 06 - Reserved 07 - Reserved 08-Reserved 427 - Session 1 Interactive Polling Interval 428 - Session 1 Integration Server IP 429 - Session 1 Integration Notification Port 430 - Session 1 Integration Polling Port 431 - Session 1 Integration Server DNS 432 - Session 1 Integration Outgoing Port 433 - Session 1 Integration Incoming Port 450-460 Repeats 423 - 433 for Session 2 477-487 Repeats 423 - 433 for Session 3 504 - 514 Repeats 423 - 433 for Session 4 691 - Session 1 Notification Control 01 - Alarm and Alarm Restore Notifications 🗸 02 - Tamper and Tamper Restore Notifications 🗸

03 - Arming and Disarming Notifications \checkmark 04 - Trouble and Trouble Restore Notifications 🗸 05 - Test Transmission Notifications V 06 – Reserved ✔ 07 – Reserved ✔ 08 – Reserved ✔ 692 - Session 2 Notification Control 01 - Alarm and Alarm Restore Notifications 🗸 02 - Tamper and Tamper Restore Notifications 🗸 03 – Arming and Disarming Notifications 🗸 04 - Trouble and Trouble Restore Notifications V 05 - Test Transmission Notifications 🗸 06 – Reserved ✔ 07 – Reserved ✔ 08 – Reserved 🗸 693 - Session 3 Notification Control 01 - Alarm and Alarm Restore Notifications 🗸 02 - Tamper and Tamper Restore Notifications 🗸 03 – Arming and Disarming Notifications 🗸 04 - Trouble and Trouble Restore Notifications 🗸 05 - Test Transmission Notifications 🗸 06 – Reserved ✔ 07 – Reserved ✔ 08 – Reserved 🗸 694 - Session 4 Notification Control 🗸 01 - Alarm and Alarm Restore Notifications 🗸 02 - Tamper and Tamper Restore Notifications 🗸 03 - Arming and Disarming Notifications 🗸 04 - Trouble and Trouble Restore Notifications 🗸 05 - Test Transmission Notifications 🗸 06 – Reserved ✔ 07 – Reserved ✔ 08 – Reserved 🖌 901 - Receiver Test 01 - Receiver 1 02 - Receiver 2 03 - Receiver 3 04 - Receiver 4 976 - Configuration File Version 977 - Cellular NetworkProvider -MCC/MNC Code 978 - Cellular Network Type 979 - Cellular Network CSQ 980 - Radio Reset Codes 981 - Radio Type 982 - Radio Firmware Version

983 - Firmware Update **Diagnostics Section** 984 - Communicator Status 985 - Radio Initialization Status 986 - System Toggle Options 4 01 - Remote Shutdown Enable Default 02 - 2-8 Reserved 987 - Language Version 988 - DNS 1 IP Address 989 - DNS 2 IP Address 990 - Boot Loader Version 991 - Firmware Version 992 - Ethernet IP Address 993 - Ethernet Gateway IP Address 994 - Cellular IP Address 995 - SIM Number 996 - Cellular Telephone Number 997 - IMEI Number 998 - MAC Address **Kevpad Programming** 860 Keypad Slot Number 861-876 Keypad Programming 000 - Keypad Partition Mask 00 - Global Keypad 01 – Partition 1 🗸 02 - Partition 2 03 - Partition 3 04 - Partition 4 05 - Partition 5 06 - Partition 6 07 - Partition 7 08 – Partition 8 001 - Function Key 1 () 002 – Function Key 2 () 003 - Function Key 3 (06) 004 - Function Key 4 (22) 005 - Function Key 5 () 00 - Null Key 02 – Instant Stay Arm 03 - Stay Arm 04 - Away Arm 05 – No Entry Arm 06 - Chime On/Off 07 - System Test 09 - Night Arm 12 - Global Stay Arm 13 - Global Away Arm 14 - Global Disarming 15 - Temperature 16 - Quick Exit 17 - Arm Interior 21-24 - Command Output 1-4 29 - Bypass Group Recall 31 - Local PGM Activate 32 - Bypass Mode 33 - Bypass recall 34 - User Programming 35 - User Functions 37 - Time/Date Programming 39 - Trouble Display 40 - Alarm Memory 61-68 - Partition Select 1-8 011 - Kevpad I/O (000) 012 - Local PGM Output Timer Pulse Time (00 minutes)

Pulse Time (05 sec.) 021 - Keypad Option 1 1 – [F] Key Enabled ✔ 2 – [M] Key Enabled ✔ 3 – [P] Key Enabled ✔ 4 – Display Code or X's ✔ 022 - Keypad Option 2 1 – Local Clock Display 🗸 2 - Local Clock Display 24 Hour 3 – Auto Alarm Scroll 🗸 5 – Power LED Option ✔ 6 – Power LED AC Present 🗸 7 – Alarms Displayed if Armed ✔ 8 - Auto Scroll Open Zones 🗸 023 - Keypad Option 3 1 - Armed LED Power Save* 2 – Keypad Show Arm Mode ✓* 3 – 5th Terminal is PGM Output/Zone 4 – Prox Tag Arm/Disarm 7 - Local Display of Temp. 8 - Low Temperature Warning 030 - LCD Message (16 x 2 hex) 031 - Download LCD Message Duration (000) 041 - Indoor Temperature Zone Entry (000) 042 - Outdoor Temperature Zone Entry (000) 101-228 - Door Chime Sound-Zone 1-128 00 - Disabled 01 – 6 beeps ✔ 02 - "Bing-Bong" Sound 03 - "Ding-Dong" Sound 04 - Alarm Tone 05 - Zone Name **899** Template Programming - 5-Digit Template Code (5-digit decimal) - Central Station Telephone Number (32-digit decimal) - Central Station Account Code (4/6-digit decimal) - Partition Account Code (4-digit decimal) - DLS Access Code (6-digit decimal) - Partition Entry Delay (000-255 sec.) - Partition Exit Delay (000-255 sec.) - Installer Code System Information and Testing 900 System Information 000 - Control Panel Version 001- 016 - Keypad 1-16 Version Info 101-116 - 8-HSM2108 1-16 Version Info 201-216 - HSM2208 Version Information 460 - Alternate Communicator 461 - HSM2HOST Version Info

501 - 504 HSM2300 1-4 Version Info 521-524 - HSM2204 1-4 Version Info 551-554 - HSM3350 1-4 Version Info 601-608 - HSM3204CX 1-8 Version Info 901 Installer Walk Test **Module Programming** 902 Add/Remove Modules 000 - Auto-Enroll All Modules 001 - Enroll Modules 002 - Slot Assignment 003 - Edit Module Slot Assignment 101 - Delete Keypads 102 - Delete HSM2108 103 - Delete HSM2208 104 - Delete HSM3408 106 - Delete HSM2HOST 108 - Delete HSM2955 109 - Delete HSM2300 110 - Delete HSM2204 111 - Delete HSM3350 112 - Delete HSM3204CX 903 Confirm Modules 000 - View All Modules 101 - Confirm Keypads 102 - Confirm HSM2108 103 - Confirm HSM2208 104 - Confirm HSM3408 106 - Confirm HSM2HOST 108 - Confirm HSM2955 109 - Confirm HSM2300 110 - Confirm HSM2204 111 - Confirm HSM3350 113 - Confirm HSM3204CX 904 Wireless Placement Test 001-128 - Placement Test Zones 1 - 128521-528 - Placement Test Repeaters 1-28 551-566 - Placement Test Sirens 1 - 16601-632 - Placement Test Wireless Keys 1-32 701-716 - Placement Test Wireless Keypads 1-16 911 Diagnostics 000-HSXXXX Diagnostics 001-016 - Keypad 1-16 101-115 - Zone Expander 1-15 301-315 - 8 I/O Expander 1-15 501-504 - Power Supply 1-4 521-524 - High Current Output Battery 1-4 551-554 - 3A Power Supply 1-4 601-608 - Corbus repeater 1-8 912 Soak Test 000 - Zone Soak Test Duration Default: 014 001-016 - Zone Soak Test - Zones 1-16 **Battery Settings** 982 Battery Settings

000-Panel Battery Settings

01-Panel High Charge Current 010-HSM2204 Battery Settings 01 - HSM2204 1 High Charge Current 02 - HSM2204 2 High Charge Current 03 - HSM2204 3 High Charge Current 04 - HSM2204 4 High Charge Current 020 - HSM2300 Battery Settings 01 - HSM2300 1 Charge 02 - HSM2300 2 Charge 03 - HSM2300 3 Charge 04 - HSM2300 4 Charge 030-HSM3204CX Battery Settings 01-HSM3204CX 1 High Charge Current 02-HSM3204CX 2 High Charge Current 03-HSM3204CX 3 High Charge Current 04-HSM3204CX 4 High Charge Current 05-HSM3204CX 5 High Charge Current 06-HSM3204CX 6 High Charge Current 07-HSM3204CX 7 High Charge Current 08-HSM3204CX 8 High Charge Current 040 - HSM3350 Battery Settings 01-04 - HSM3350 1-4 Battery Battery 1 High Current Battery 2 High Current Enable Battery 2 V Defaults 989 Default Master Code 990 Installer Lockout Enable/Disable 991 Default Keypads 901-916 – Default Keypad 1-16 999 - Default all Keypads

996 Default HSM2HOST
998 Default HSM2955
999 Default System
* Wireless keypads only

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Zone Record

Zone	Label	Location	Туре	Attribute		Zone	Label	Location	Туре	Attribute
001			- 5 100			002			- 5 P *	
003						004				
005						006				
007						008				
009						010				
011						012				
013						014				
015						016				
017						018				
019						020				
021						022				
023						024				
025						026				
027						028				
029						030				
031						032				
033						034				
035						036				
037						038				
039						040				
041						042				
043						044				
045						046				
047						048				
049						050				
051					Ť	052				
053						054				
055						056				
057						058				
059						060				
061						062				
063						064				
065						066				
067						068				
069						070				
071						072				
073						074				
075						076				
077						078				
079		•				080				
081						082				
083						084				
085						086				
087						088				
089						090				
091						092				
093						094				
095						096				
097						098				

Zone	Label	Location	Туре	Attribute	Zone	Label	Location	Туре	Attribute
099					100				
101					102				
103					104				
105					106				
107					108				
109					110				
111					112				
113					114				
115					116				
117					118				
119					120				
121					122				
123					124				
125					126				
127					128				

Module Record

Module Type	Slot	Serial Number	Module Type	Slot	Serial Number

Wireless Device Record

Device Type	Zone	Serial Number	Device Type	Zone	Serial Number
		*			

Installer-Defined Access Codes

001 – Installer Code:	
002 – Master Code:	
003 - Maintenance Code:	

System Account Code

Locating Detectors and Escape Plan

The following information is for general guidance only and it is recommended that local fire codes and regulations be consulted when locating and installing smoke and CO alarms.

Smoke Detectors

Research has shown that all hostile fires in homes generate smoke to a greater or lesser extent. Experiments with typical fires in homes indicate that detectable quantities of smoke precede detectable levels of heat in most cases. For these reasons, smoke alarms should be installed outside of each sleeping area and on each storey of the home.

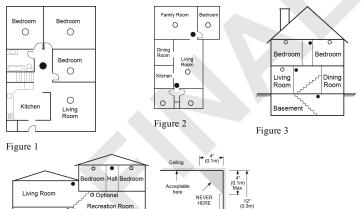
The following information is for general guidance only and it is recommended that local fire codes and regulations be consulted when locating and installing smoke alarms.

It is recommended that additional smoke alarms beyond those required for minimum protection be installed. Additional areas that should be protected include: the basement; bedrooms, especially where smokers sleep; dining rooms; furnace and utility rooms; and any hallways not protected by the required units. On smooth ceilings, detectors may be spaced 9.1m (30 feet) apart as a guide. Other spacing may be required depending on ceiling height, air movement, the presence of joists, uninsulated ceilings, etc. Consult National Fire Alarm Code NFPA 72, CAN/ULC-S553-02 or other appropriate national standards for installation recommendations.

- Do not locate smoke detectors at the top of peaked or gabled ceilings; the dead air space in these locations may prevent the unit from detecting smoke.
- Avoid areas with turbulent air flow, such as near doors, fans or windows. Rapid air movement around the detector may prevent smoke from entering the unit.
- · Do not locate detectors in areas of high humidity.
- Do not locate detectors in areas where the temperature rises above 38°C (100°F) or falls below 5°C (41°F).
- Smoke detectors should always be installed in USA in accordance with Chapter 11 of NFPA 72, the National Fire Alarm Code: 11.5.1.1.

Where required by applicable laws, codes, or standards for a specific type of occupancy, approved single- and multiple-station smoke alarms shall be installed as follows:

- 1. In all sleeping rooms and guest rooms.
- 2. Outside of each separate dwelling unit sleeping area, within 6.4 m (21 ft) of any door to a sleeping room, the distance measured along a path of travel.
- 3. On every level of a dwelling unit, including basements
- On every level of a residential board and care occupancy (small facility), including basements and excluding crawl spaces and unfinished attics.
- 5. In the living area(s) of a guest suite.
- 6. In the living area(s) of a residential board and care occupancy (small facility).



Top of detector

Basement

Figure 4

SPLIT LEVEL

Fire Escape Planning

Smoke detectors for better protection
 Smoke detectors for minimum protection

There is often very little time between the detection of a fire and the time it becomes deadly. It is thus very important that a family escape plan be developed and rehearsed.

- 1. Every family member should participate in developing the escape plan.
- Study the possible escape routes from each location within the house. Since many fires occur at night, special attention should be given to the escape routes from sleeping quarters.
- 3. Escape from a bedroom must be possible without opening the interior door.

Consider the following when making your escape plans:

- Make sure that all border doors and windows are easily opened. Ensure that
 they are not painted shut, and that their locking mechanisms operate smoothly.
- If opening or using the exit is too difficult for children, the elderly or handicapped, plans for rescue should be developed. This includes making sure that those who are to perform the rescue can promptly hear the fire warning signal.
- If the exit is above the ground level, an approved fire ladder or rope should be provided as well as training in its use.
- Exits on the ground level should be kept clear. Be sure to remove snow from exterior patio doors in winter; outdoor furniture or equipment should not block exits.
- Each person should know the predetermined assembly point where everyone can be accounted for (e.g., across the street or at a neighbor's house). Once everyone is out of the building, call the fire department.
- A good plan emphasizes quick escape. Do not investigate or attempt to fight the fire, and do not gather belongings as this can waste valuable time. Once outside, do not re-enter the house. Wait for the fire department.
- Write the fire escape plan down and rehearse it frequently so that should an
 emergency arise, everyone will know what to do. Revise the plan as conditions change, such as the number of people in the home, or if there are
 changes to the building's construction.
- Make sure your fire warning system is operational by conducting weekly tests. If you are unsure about system operation, contact your installer.
- We recommend that you contact your local fire department and request further information on fire safety and escape planning. If available, have your local fire prevention officer conduct an in-house fire safety inspection.



CARBON MONOXIDE DETECTOR

Figure 5

Carbon Monoxide Detectors

Carbon monoxide is colorless, odorless, tasteless, and very toxic, it also moves freely in the air. CO detectors can measure the concentration and sound a loud alarm before a potentially harmful level is reached. The human body is most vulnerable to the effects of CO gas during sleeping hours; therefore, CO detectors should be located in or as near as possible to sleeping areas of the home. For maximum protection, a CO alarm should be located outside primary sleeping areas or on each level of your home. Figure 5 indicates the suggested locations in the home.

Do NOT place the CO alarm in the following areas:

- Where the temperature may drop below -10°C or exceed 40°C
- Near paint thinner fumes
- Within 5 feet (1.5m) of open flame appliances such as furnaces, stoves and fireplaces
- In exhaust streams from gas engines, vents, flues or chimneys
- In close proximity to an automobile exhaust pipe; this will damage the detector

PLEASE REFER TO THE CO DETECTOR INSTALLATION AND OPERATING INSTRUCTION SHEET FOR SAFETY INSTRUCTIONS AND EMERGENCY INFORMATION.

Figure 3a

Regulatory Approvals

FCC COMPLIANCE STATEMENT

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be deter-mined 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.
- · Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

The user may find the following booklet prepared by the FCC useful: "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.

IMPORTANT INFORMATION

This equipment complies with Part 68 of the FCC Rules, and, if the product was approved July 23, 2001 or later, the requirements adopted by the ACTA. On the side of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN) for this equipment. If requested, this number must be provided to the Telephone Company.

HS3032 Product Identifier US:F53AL01AHS3256

HS3128 Product Identifier US:F53AL01AHS3256

USOC Jack: RJ-31X

Telephone Connection Requirements

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

Ringer Equivalence Number (REN)

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local Telephone Company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format.

US: AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

Incidence of Harm

If this equipment HS3032/HS3128 causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice is not practical, the Telephone Company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

Changes in Telephone Company Equipment or Facilities

The Telephone Company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the Telephone Company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

Equipment Maintenance Facility

If trouble is experienced with this equipment HS3032/HS3128 for repair or warranty information, please contact the facility indicated below. If the equipment is causing harm to the telephone network, the Telephone Company may request that you disconnect the equipment until the problem is solved. This equipment is of a type that is not intended to be repaired by the end user.

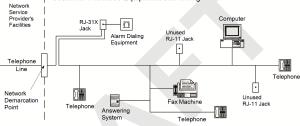
Tyco Atlanta Distribution Center 2600 West Pointe Dr. Lithia Springs, GA 30122

Additional Information

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

Alarm dialling equipment must be able to seize the telephone line and place a call in an emergency situation, even if other equipment (telephone, answering system, computer modem, etc.) already has the telephone line in use. To do so, alarm dialling equipment must be connected to a properly installed RJ-31X jack that is electrically in series with and ahead of all other equipment attached to the same telephone line. Proper installation is depicted in the figure below. Consult your telephone company or a qualified installer jack and alarm dialling equipment for you.

| Customer Premises Equipment and Wiring



INDUSTRY CANADA STATEMENT

NOTICE: This Equipment, HS3032/HS3128, meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment.

NOTICE: The Ringer Equivalence Number (REN) for this terminal equipment is 0.1. The REN assigned to each terminal equipment provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all devices does not exceed five.

HS3032 Registration number: IC: 160A-HS3256HS3128 Registration number IC: 160A-HS3256.

L'indice d'équivalence de la sonnerie (IES) sert à indiquer le nombre maximal de terminaux qui peuvent être raccordés à une interface téléphonique. La terminaison d'une interface peut consister en une combinaison quelconque de dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas 5.

UL/ULC Installations

This product (HS3032/HS3128) has been tested and found in compliance with the following standards:

- UL1610 Central-Station Burglar-Alarm Units
- UL365 Police Station Connected Burglar Alarm Units and Systems
- UL1023 Household Burglar-Alarm System Units
- UL985 Household Fire Warning System Units
- UL1635 Digital Alarm Communicator System Units
- UL1637 Home Health Care Signaling Equipment
- ULC-S304-06 Signal Receiving Centre & Premise Burglar Alarm Control Units
- ULC-S559-04 Equipment for Fire Signal Receiving Centers and Systems
- ULC-S545-02 Residential Fire Warning System Control Units

The subscriber control unit shall provide for the connection of protective wiring, conductors, and attachments in accordance with the Standard for Installation and Classification of Burglar and Holdup Alarm Systems, UL 681.

This product has also been tested and found in compliance with the ANSI/SIA CP-01-2010 Control Panel Standard – Features for False Alarm Reduction.

This product is UL/ULC listed under the following categories:

- AMCX/AMCXC Central Stations Alarm Units
- AOTX/AOTXC Local Alarm Units
- APAW Police-station-connected Alarm Units
- DAYRC Central Station Fire Alarm System Units
- UTOU/UTOUC Control Units and Accessories, Household System Type
- NBSX/NBSXC Household Burglar Alarm System Units
- AMTB Control Panels, SIA False Alarm Reduction

The product is labeled with the UL and ULC listing marks along with the SIA CP-01 compliance statement (Also Classified in accordance with SIA-CP-01 Standard) as proof

of compliance with the above mentioned standards. For further information on this product's listings please also refer to the official listing guides published at the UL web site (www.ul.com) under Online Directions Section.

UL/ULC Residential Fire and Burglary Installations:

For ULC Installations refer to the Standard for the Installation of Residential Fire Warning Systems, CAN/ULC-S540.

- Control Unit must be enclosed in model HSC3010C or HSC3020C enclosure.
- Power supply model SOY-1800360NA (HS65WPSNA) must be employed.
- 24 h standby power must be provided for fire applications and 4h for burglary only applications (AC trouble must be transmitted to SRC).
- One DSC Model RM-1 or RM2 end-of-line supervision relay module must be used.
- Priority of signals needs to be set Fire, CO/ Medical, Burg, Panic, AUX (Flood).
- All burglary-type zones shall be configured with SEOL or DEOL configuration. Use model EOLR-2
- (refer to section [002], bit 10 or 11 shall be ON)
- Use at least one PG9926/ PG9916 Smoke Detector for Fire Installations (section [001], fire zone shall be programmed as type 025)
- The entry delay shall not exceed 45 seconds (see section [005])
- The exit delay shall not exceed 60 seconds (refer to section [005])
- The minimum Bell Time-out is 4 minutes (refer to section [005])

Note: For ULC Residential Fire installations, minimum bell time-out is 5 min. For UL Home Health Care installations, minimum bell time-out is 5 min. For UL Commercial Burglary installations, minimum bell time-out is 15 min.

- Temporal Three Fire Signal shall be enabled (section [013], opt.8 ON)
- Arm/Disarm Bell Squawk shall be enabled when using wireless key PG4939/PG4929/PG4949 (section [014], option 1 shall be ON)
- A code shall be required for bypassing (section [023], option 4 shall be ON)
- Trouble beeps shall be enabled (section [022], option 7 shall be ON)
- AC trouble indication LED shall be enabled (Keypad Programming, section [022], options 5 and 6 shall be ON)
- DACT Communicator shall be enabled for Supervising Station Monitoring (section [380], option 1 shall be ON)

Note: The DACT communicator for this product has no line security.

Telephone Line Monitoring (TLM) shall be enabled (section [015], option 7 shall be ON)

Note: This product is programmed to perform 5 (min.) to 10 (max.) attempts for communication of an event to the supervising station. If unsuccessful, a Fail To Communicate (FTC) trouble is generated.

· Test transmission cycle shall be set for monthly transmission (refer to section [351])

Note: For ULC Residential/Commercial installations set for daily test transmission.

- Wireless Supervision window shall be set to 4 hours for Fire Installations (Wireless Programming, section [804]>[802] shall be programmed with the value 16)
- Wireless Supervision window shall be set to 4 hours for Burglary Installations only (Wireless Programming, section [804]>[802] shall be programmed with the value 96)
- RF Jam detection shall be enabled (refer to Wireless Programming (section [804][801], option 00 shall be OFF)
- New Alarms will Disconnect 2-way Audio (section [022], option 6 OFF)

ULC Commercial Burglary Security Levels I-IV:

The following wireless PowerG devices models are ULC listed under ULC-S304 requirements for use in Commercial Burg applications rated for security level 1.

• PG9914	• PG9929	 PG9944 	• PG9984
 PG9905 	• PG9934P	 PG9945 	 PG9984P
 PG9920 	• PG9935	 PG9949 	 PG9985
 PG9975 	 PG9938 	 PG9974 	 PG9994
 PG9922 	 PG9939 	 PG9974P 	
DC0024			

PG9924

The wireless supervision window shall be set to 4h for such applications and the tamper detection for removal from mounting location shall be enabled.

UL Central Station and Police Connect with Standard or Encrypted Line Security Service

- The installation must use the integral Ethernet communicator or the plug-in cellular modules Models LE9080, 3G9080 or 3H9080, which communicates over Cellular Data Network or an Ethernet network 10/100BaseT to the compatible Sur-Gard System I/II/III/IV/5 receiver.
- Polling time shall be 200 seconds and compromise detection time shall be 6 min.
- For Encrypted line security applications, the integral Ethernet communicator or the plug-in cellular modules Models LE9080, 3G9080 or 3H9080 shall

have the Encryption Key enabled (AES128 bit encryption algorithm is validated under NIST Certificate No.5372.)

- Wireless Supervision window shall be enabled (refer to Wireless Programming, sections [804]>[802].)
- Open/Closing acknowledgment shall be enabled (Not required for Police Station connected systems.)
- Bell test for police station connect.

UL Local, Central Station and Police Connect with No Line Security Service

- All zones shall be programmed as end-of-line supervised.
- All intrusion zones shall be programmed as audible.
- The installation shall use a Bell UL Listed for Mercantile local alarms (e.g., Honeywell Model AB-12M bell housing). Connections from the control unit to the bell shall be made in conduit. (Optional for central Station).
- The Bell shall be tested daily. Alternate option is to have bell squawk enabled for arming/disarming. The Bell activation cannot be delayed for more than 5 mins
- The bell timeout shall be programmed for 15 minutes minimum.
- At least one system remote keypad with tamper switch shall be employed The integral communciator (DACT/IP) or plug-in cellular module shall be
- enabled and shall be programmed to provide a low battery transmission.
- The control panel shall be in a separately listed HSC3030CAR attack resistant enclosure.
- The maximum entry delay time shall not exceed 45s (25s for a local) as a result of the attack test. The maximum exit delay time shall not exceed 60 s.
- A tamper switch shall be used to protect the enclosure cover of the control unit. A tamper switch shall also be used on the keypad rear to detect removal from the wall.
- 24 h check in transmission shall be enabled.
- Open/Closing acknowledgement enabled.(Not Police Station).
- The Installation shall use the internal communicator (DACT or IP) alone or in conjunction with plug-in cellular modules Models LE9080, 3G9080 or 3H9080, which communicate over Cellular Data Network or an Ethernet network 10/100BaseT to the compatible Sur-Gard System I/II/III/IV/5 receiver.

UL Home Health Care Signaling Equipment

- There must be at least two keypads, one of the compatible keyapds models HS2LCD, HS2LCDP, HS2LCDRF9, HS2LCDRFP9, HS2LCDWF9, HS2LCDWFP9, HS2LCDWFPV9, HS2TCHP.
- Each system shall be programmed to activate an audible Trouble signal within 90 seconds upon loss of microprocessor memory

ULC Central Station Fire and Burglary Monitoring Installations

- For installation requirements, levels of security, communication modules and configurations (Refer to the ULC Installation Guide for PowerSeries Pro, P/N #29010346).
- HS2TCHP E touch screen keypad is for supplementary use only with ULC Commercial Fire Monitoring.
- For Commercial Fire monitoring, the primary power failure transmission may be delayed up to 3h and Bell shall be disabled.

Programming

The notes in the programming sections of thePowerSeries Pro Reference Manual describing the system configurations for UL/ULC listed installations shall be implemented.

Control of the Protected Premises

In order to have a UL certificated system, the protected area shall be under the responsibility of one ownership and management (i.e., one business under one name). This may be a group of buildings attached or unattached with different addresses but under the responsibility of someone having mutual interest. The person of mutual interest is not the alarm-installing company.

Note: This does not apply to strip mall applications where each independent business must have their own separate alarm system.

e.g.,1: A commercial partitioned system that has an office and a warehouse area in a building where each area can be armed or disarmed independently. e.g.,2: A residential system partitioned so that the garage area is armed separately from the house.

Each of the above examples is under the sole responsibility of a single owner. The bell and DACT power supply must be in a protected area including partitioned systems. The bell and DACT power supply must be located where it can be heard by the person or persons responsible for maintaining the security system during the daily arming cycle.

Bell Location

The alarm sounding device (bell) shall be located where it can be heard by the person operating the security system during the daily arming and disarming cycle.

Protection of the Control Unit

The local control unit and the local power supply must be protected in one of the following ways:

- The control unit and audible alarm device must be in a protected area which is armed 24 hours a day.
- Each partition must arm the area protecting the control unit and the audible alarm device power supply. This may require duplicate protection armed by each partition. Access to this protected area, without causing an alarm, will require that all partitions be disarmed.
- In all cases described above, the protected area for the control unit must be programmed as not-bypassable.

Casual Users

The installer should caution the user not to give system information (e.g., codes, bypass methods, etc.) to casual users (e.g., service people) and to only give out One-Time Use codes.

User Information

The installer should advise the user and note in the User's Manual:

- Service organization name and telephone number
- The programmed exit and entry time
- Instructions to test system weekly
- Note that the installer code cannot arm or disarm the system

Aux Loading and Battery Selection

HS3128/HS3032 PCB current draw = 120 mA Alarm current = 700 mA	UL Resi Burg ULC Resi Burg	UL Com Burg	UL Resi Fire UL Home Health Care ULC Resi Fire ULC Com Burg	UL Resi Fire with wired CO Detectors UL985 6th Ed	ULC COM FireMonitoring	EN50131 Grade 2	EN50131 Grade 3
Standby Time and Alarm Time	4 h + 4 min 4 h + 4 min	4 h + 15 min	24 h + 4 min 24 h + 4 min 24 h + 4 min	24 h + 4 min + 12 h CO alarm	24 h + 5 min	12 h	30h (AC fail transmission)
Enclosure	HSC3010C	HSC3030CCAR	HSC3010C	HSC3010C	HSC3010CR	HSC3020C	HSC3020C
Power Supply Adapter	HS65WPSNA	HS65WPSNA	HS65WPSNA HS65WPSNAS (ULC CB Security Level 4) (Require high voltage barrier kit)	HS65WPSNA	HS65WPSNAS	HS65WPS	HS65WPS
	4 Ah/700 mA	4 Ah/700 mA					
Battery capacity	7 Ah/1200 mA	7 Ah/1200 mA	14 Ah/500 mA	14 Ah/330 mA	14 Ah/500 mA	17 Ah/	17Ah/500mA
/max loading	14 Ah/2000 mA	14 Ah/2000 mA	17 Ah/600 mA	17 Ah/400 mA	17 Ah/600 mA	1200 mA	
	17 Ah/2000 mA	17 Ah/2000 mA				Ť	
Recharging current setting	Low (400mA) for 4Ah/High (700mA)	Low (400mA) for 4Ah/High (700mA)	High (700 mA)	High (700 mA)	High (700 mA)	Low (400 mA)	High (700mA)

EUROPEAN EN50131 COMPLIANCE STATEMENT

This Product (HS3032/HS3128) meets the requirements of Grade 3, Class II equipment as per EN 50131-1:2006 + A1:2009 + A2:2017 Standards. The Model HS3032, HS3128 Control Panel has been certified by Telefication according to EN50131-1: 2006 + A1:2009+A2:2017, EN50131-6:2017 Type A, EN50131-10, EN50136-2:2013 ATS SP3 (dialer), SP4 (Ethernet), DP2 (dialer and Ethernet), DP3 (Ethernet and plug-in cellular).

This product is suitable for use in systems with the following notification options:

- A use of two remotely powered warning devices and one ATS SP3 required (internal dialer or ethernet or plug-in cellular module),
- B use of one self-powered warning device and one ATS SP3 required (internal dialer or ethernet or plug-in cellular module),
- C use of dual path ATS DP2 required (any combination of internal dialer and ethernet and/or cellular module)
- D use of an ATS SP4 required (internal ethernet or plug-in cellular module with encryption enabled)
- E use of dual path ATS DP3 required (combination of internal ethernet and plug-in cellular module with encryption enabled)



This product is in conformity with the Electromagnetic Compatibility Directive 2014/30/EU, the Low Voltage Directive 2014/35/EU, and the ROHS2 Directive 2011/65/EU.

The product is labelled with the CE mark as proof of compliance with the above mentioned European Directives. Also a CE declaration of conformity (DoC) for this product can be found at www.dsc.com under Agency Listings section.

SIA False Alarm Reduction Installations: Quick Reference

Minimum required system consists of one Control unit model HS3032 or HS3128, and any one of the compatible listed keypads (refer to page 1.)

The following wireless keyfobs can also be used in SIA compatible installations: PG9929, PG9939, PG9949.

Note: For models PG9929 and PG9939, the panic/emergency key shall be disabled for SIA compliant installations.

For a list of the default values programmed when the unit is shipped from the factory, and for other programming information, refer to the following table.

The following optional subassembly modules also bear the SIA CP-01-2014 classification and may be used if desired: HSM2108 zone expander, HSM2208 PGM output module, HSM2300 auxiliary power supply, HSM2204 output module, HSM2HOST9 2-way wireless transceiver, PG9901 indoor siren, PG9911 outdoor siren, and LE9080/3G9080-EU/3G9080-AU/3G9080/3H9080/GS9080 cellular and PSDN communication module.

Caution

- For SIA FAR installations use only modules/devices that are listed on this page.
- Fire Alarm Verification feature (Auto Verified Fire Zone type [025]) is not supported on 2-wire smoke detectors zones, model FSA-210B(T) (S)(ST)(LST)(R)(RT)(RD)(RST)(LRST). This feature may be enabled for 4-wire smoke detectors only (FSA-410B(T)(S)(ST)(LST)(R)(RT) (RST)(LRST) and wireless detectors PG9916/PG9926). The fire alarm delay is 60s.
- Call Waiting Cancel (Section [382], option 4) on a non-Call Waiting line will prevent successful communication to the supervising station.
- All system smoke detectors must be tested annually by conducting an Installer Walk Test. Prior to exiting Walk Test mode, a sensor reset must be done on the system, [*][7][2], to reset all latching 4-wire smoke detectors. Refer to the installation instructions supplied with the detector for details.

Notes

- Programming at installation may be subordinate to other UL requirements for the intended application.
- Cross zones have the ability to individually protect the intended area (e.g. motion detectors which overlap).
- · Cross zoning is not recommended for line security Installations nor is it to be implemented on exit/entry zones.
- This control panel has a communication delay of 30 seconds. It can be removed or increased up to 45 seconds by the end user with installer consultation.
- The system shall be installed with the sounding device activated and the communicator enabled for transmission using SIA or CID format.
- ULC commercial burglary installations require DEOL resistors.

PowerSeries Neo Installation Guide

SIA Feature			
Programming Section	Comments	Range/Default	Requirement
Exit Time [005]>[001], option 3	Access to Entry and Exit delays and Bell Time Out for the system.	Range:45- 255 seconds Default: 60 sec.	Required (programmable)
Exit Delay Restart [018], option 7	Opening a Delay zone door after it has already been opened and closed during an exit delay restarts the exit delay timer.	Default: Enabled	Required
Auto Stay Arm on Un- vacated Premises [001]>[001]-[128] Zone type 05, 06,09	Function key: Forces the system to arm in Stay mode if the occupant does not exit the premises after pressing the Away function key.	If no exit after full arm Default: Enabled	Required
Exit Time and Progress Annunciation/Disable or Remote Arming [861]>[001]-[005], option 4	System times and audible exit beeps can be disabled when using the wireless key to stay arm the system. When away arming, audible exit beeps can not be disabled. For remote arming (using keyfob), it is possible to program the instant stay arm (no exit delay). By default this option is OFF. When arming/disarming with keyfob the bell squawk option shall be enabled. The Bell shall be tested daily. Alternate option is to have bell squawk enabled for arming/disarming	Default: Enabled	Allowed
Entry delay(s) [005]>[001]-[008], options 1 and 2	Access to entry and exit delays and bell time out for the system Note: Combined entry delay and communications delay (abort window) shall not exceed 60s.	Range: 30 sec. to 4 min. Default: 30 sec.	Required (programmable)
Abort Window for Non- Fire zones [002]>[001]-[128], option 7 ON	Access to zone attributes, i.e., swinger shutdown, transmission delay and cross zone. May be disabled by zone or zone type.	Default: Enabled	Required
Abort Window Time - for Non-Fire zones [377]>[002], option 1	Access to the programmable delay before communicating alarms Note: Combined entry delay and communications delay (abort window) shall not exceed 60 seconds.	Range: 00 - 45 sec. Default: 30 sees	Required (programmable)
Abort Annunciation	An audible tone is generated when an alarm is aborted during the abort window.	Hard-coded ON	Required
Duress Feature [*][5]> master code> user 2-95> 5> 2	When this feature is enabled, selected user codes send a duress reporting code to the central station when used to perform any function on the system. Section [019], option [6] must be enabled.	Default: N	Required
Cancel Window [377]>[002], option 6	Access to the communications cancel window. Minimum duration must be 5 minutes.	Range: 005-255 Default: 005	
Cancel Annunciation [308]>[001], option 8	Access to the reporting code for Alarm Canceled.	A Cancel was transmitted Default: Enabled	Required
Cross Zoning [042]>Selection 3, option 002	Enables cross zoning for entire system. Zones can be enabled for cross zoning via zone attribute option 8 in sections [002][101] - [128].	Programming required Default: Disabled	Required
Burglary Verification Timer [005]>[000], option 3	Access to the programmable Cross Zone timer.	Range: 000-255 sec. Default: 60 seconds	Allowed
Swinger Shutdown for Alarms [377]>[001], option 1	Access to the swinger shutdown limit for zone alarms For all non-fire zones, shut down at 1 to 6 trips.	Default: 2 trips	Required (programmable)
Swinger Shutdown Enable [002]>[001] - [128], option 6 ON	Access to swinger shutdown, transmission delay and cross zone attributes. Zone attribute option 6 (Swinger Shutdown enabled) is ON.	Non-police response zones Default: Enabled	Allowed
24-Hr. Auto-verified Fire [001]>[001]-[128], Zone type 025 ON	Access to 24-Hr. Auto-verified Fire Activates if Not restored within the specified time.	Must choose zone type for application	Required
Call Waiting Cancel [382], option 4 OFF	Access to the dialing sequence used to disable call waiting. Call waiting string can be programmed in [304]	Depends on user phone line Default: Disabled	Required
System Test: [*][6] Master Code, option 04	The system activates all keypad sounders, bells or sirens for 2 seconds and all keypad lights turn on. Refer to user manual.		

PowerSeries Neo Installation Guide

Walk Test Mode: [*][8][Installer code] [901]	This mode is used to test each zone on the system for proper functionality.		
Walk Test Communications [382], option 2	Enables communication of zone alarms while walk test is active.	Default: Disabled	
Walk Test Start/ End Reporting Codes [308][401], options 1 and 2	Access to the reporting codes for walk test start and end times.		
Duress Code	Duress codes function the same as user access codes, except they transmit a d Duress codes cannot be used to access [*][5], [*][6] or [*][8] menus. Duress c		

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.

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 jurisdiction limit of on ot 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 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.

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 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, barbeques, 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 hearingimpaired 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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