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PowerSeries Neo V1.2 Alarm Control Installation Guide

Quick Setup

G,	aick oc	tup
1	Plan	Plan the installation including all alarm detection devices, zone expanders, keypads and other required modules.
2	Mount	Decide on a location for the alarm panel and secure it to the wall using suitable mounting hardware.
3	Wire	Complete all wiring including modules, zones, bells/sirens, telephone line connections and ground connections. Record module serial numbers on page 19.
4	Power	Connect the battery and power up the system. The battery must be connected.
5	Enroll First Keypad	Hardwired: Wire the keypad to the Corbus, power up the alarm panel then press any button on the keypad. Wireless: 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.
6	Enroll modules	[*][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.
7	Enroll wireless devices	[*][8][Installer Code][804] subsection [000]. Note: An HSM2HOST or RF keypad must be enrolled first.
8	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.
9	Test	Test the panel completely to ensure that all features and functions operate as programmed. – [901] Walk Test – [904] [000] Wireless Placement Test.

Compatible Devices

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

Table 1-1 Compatible Devices

Modules		
Wireless keypads:	HS2LCDWFx HS2LCDWFPx	HS2LCDWFPVx
Hardwired keypads with 2-way wireless integration module:	HS2LCDRFx HS2LCDRFPx	HS2ICNRFx HS2ICNRFPx
Hardwired keypads:	HS2LCD HS2LCDP HS2ICN	HS2ICNP HS2LED
Touchscreen Keypad	HS2TCHP	
2-way wireless integration module:	HSM2HOSTx	
8-zone expander:	HSM2108	
8-output expander:	HSM2208	
Power supply:	HSM2300	
4 high current output expander:	HSM2204	

Alternate communicator:	3G2080 3G2080R TL280 TL280R	TL2803G TL2803GR PCL-422	
Hardwired Devices			
2-wire smoke detectors: y= A, B, or C A: ULC listed models B: UL listed models C: European and Australian models	FSA-210x FSA-210xT FSA-210xS FSA-210xST FSA-210xLST	FSA-210xR FSA-210xRT FSA-210xRS FSA-210xRST FSA-210xLRST	
4-wire smoke detectors:	FSA-410x FSA-410xT FSA-410xS	FSA-410xR FSA-410xRT FSA-410xRS	
y= A, B, or C A: ULC listed models B: UL listed models C: Express and Australian models	FSA-410xST FSA-410xLST	FSA-410xLRST FSA-410xLRST	
C: European and Australian models CO detectors:	CO-12/24 12-24SIR FW-CO12	FW-CO1224 CO1224	
Wireless Devices			
Wireless PG smoke detectors		PGx926	
Wireless PG smoke and heat detector		PGx916	
Wireless PG CO detector:		PGx913	
Wireless PG PIR motion detectors:	PGx904(P)		
Wireless PG PIR + camera motion dete	Wireless PG PIR + camera motion detector		
Wireless PG curtain motion detector		PGx924	
Wireless PG dual tech motion detector		PGx984(P)	
Wireless PG mirror motion detector		PGx974(P)	
Wireless PG outdoor motion detector		PGx994	
Wireless PG glass break detector:		PGx912, PGx922	
Wireless PG shock detector:		PGx935	
Wireless PG flood detector:		PGx985	
Wireless PG temperature detector (inde	oor use):	PGx905	
Outdoor temperature probe (requires P	Gx905)	PGTEMP-PROBE	
Wireless PG keys:		PGx939 PGx929	
Wireless PG panic key		PGx938	
Wireless PG 2-button key		PGx949	
Wireless PG sirens:		PGx901 PGx911	
Wireless PG repeater:		PGx920	

Wireless PG door/window contact w/ AUX Central Station Receivers

Wireless PG door/window contacts:

SG-System I II III IV

Enclosures

PC5003C, PC4050CR, PC4050CAR, CMC-1, PC4051C. Other enclosures are available to suit a variety of system configurations.

PGx975

PGx945



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.

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.
- HS2016/HS2016/2032/2064/2128 alarm controller
- · Power Supply, direct plug-in
- Mounting hardware

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 20 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 transformer supplied with the device.

WARNING: THIS EQUIPMENT HAS NO MAINS ON/OFF SWITCH. THE PLUG OF THE DIRECT PLUG-IN POWER SUPPLY 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 Service Persons only (Service Person is defined as a person having the appropriate technical training and experience necessary to be aware of hazards to which that person may be exposed in performing a task and of measures to minimize the risks to that person or other persons). It must be installed and used within an environment that provides the pollution degree max 2, over voltages category II, in non-hazardous, indoor locations only.

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 yourself. 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

Locate the panel in a dry area, preferably near an unswitched AC power source and the incoming telephone line. Complete all wiring before applying AC or connecting the battery.

Terminal Descriptions

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

Terminal	Description
BAT+, BAT-	Battery terminals. Use to provide backup power and additional current when system demands exceed the power output of the transformer, such as when the system is in alarm.
	Do not connect the battery until all other wiring is complete.
AC	Power terminals.
	Connect the battery before connecting the AC. Do not connect the battery or transformer until all other wiring is complete.
AUX+, AUX-	Auxiliary terminals. Use to power modules, detectors, relays, LEDs, etc. (700mA MAX). Connect the positive side of device to AUX+, the negative side to AUX
BELL+, BELL-	Bell/Siren power (700mA MAX). Connect the positive side of any alarm warning device to BELL+, the negative side to BELL
RED, BLK, YEL, GRN	Corbus terminals. Use to provide communication between the alarm controller and connected modules. Each module has four Corbus terminals that must be connected to the Corbus.
PGM1 to PGM4	Programmable output terminals. Use to activate devices such as LEDs. (PGM1, PGM3, and PGM4: 50mA PGM2: 300mA or can be configured as an input)
Z1 to Z8 COM	Zone input terminals. Ideally, each zone should have one detection device; however, multiple detection devices can be wired to the same zone.
EGND	Earth ground connection.
TIP, RING, T-1, R-1	Telephone line terminals.
PCLINK_1	DLS/SA
PCLINK_2	DLS/SA, Alternate Communicator

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 minimum 22 gauge 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.

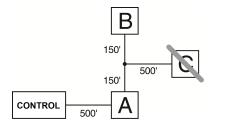


Figure 1-1 Corbus Wiring

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 1-1 System Output Ratings

Device	Output	Rating (12Vpc)
HS2016 HS2032	AUX:	700mA. Subtract the listed rating for each keypad, expansion module and accessory connected to AUX or Corbus. At least 100mA must be reserved for the Corbus.
HS2064 E HS2128 HS2128 E	BELL:	700mA. Continuous rating. 2.0A. short term. Available only with standby battery connected. Not for UL/ULC or EN certified applications.
HSM2208	AUX:	250mA. Continuous rating. Subtract for each device connected. Subtract the total load on this terminal from the alarm panel AUX/Corbus output.
HSM2108	AUX:	100mA. Subtract for each device connected. Subtract the total load on this terminal from the panel AUX/Corbus output.

Alarm Control Panel

AUX - 700mA 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

Panel Calculation

Maximum (Standby or Alarm)

AUX (700mA max. including PGMs 1-4)

Corbus (700mA max.)***

PCLink+ (Alt. Com.:125mA)

Total (must not exceed 700mA)

***See Corbus Current Calculation Chart.

For UL, ULC and Commercial Listed applications, the total standby and alarm current cannot exceed 700mA.

Table 1-2 Corbus Current Calculation Chart

Item	Current (mA)	x	Quantity	Total (mA)
HS2016/HS2032/HS2064/HS2064 E/HS2128/HS2128 E	85	x	1	85
HS2LCD	105	х		
HS2ICN	105	х		
HS2LED	105	х		
HS2LCDP	105	х		
HS2ICNP	105	х		
HS2LCDRF	105	х		
HS2ICNRF	105	х		
HS2ICNRFP	105	х		
HS2TCHP	160	х		
Current required for connected devices =				
HSM2108*	30	x		
AUX output current of HSM2108				
HSM2208*	40	x		
AUX output current of HSM2208				
HSM2300/2204*	35	x		
HSM2HOSTx	35	х		
HSM2955**		х		
3G2080(R)/TL2803G(R)/TL280(R)	125 (PCLINK)	x		
Total Corbus Current =				

*These units draw current from the Corbus to power devices external to the module. This current must be added to the total Corbus current. See manufacturer's specifications for the current draw of each device.

** For HSM2955 current draw refer to HSM2955 installation manual.

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

AC (International Installations)

Primary: 220V-240Vac, 50/60Hz, 200mA

Secondary: 16.5VAC/40VA

Warning: Do not connect the battery or transformer until all other wiring is complete.

Batteries

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 21.

Additional Wiring

Zone Wiring

Power down the alarm controller and complete all zone wiring.

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 or double end-of-line resistors.

Zone programming is done using the following programming sections:

- [001] selects zone definition
- [013] Opt [1] for normally closed or EOL; Opt [2] for SEOL or DEOL
- [201 208] partition assignment.

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 100Ω 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 11.3-12.5VDC/700mA 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.

Note: If using a 12V, 14Ah battery, maximum AUX capacity for 24-hour standby is 470mA.

PGM Wiring

Min/max operating voltages for devices, sensors and modules is 9.5VDC - 14VDC.

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, 3, 4 supply up to 50mA; PGM 2 supplies up to 300mA.

A relay is required for current levels greater than 50mA or 300mA. PGM2 can also be used for 2-wire smoke detectors, 24-hr burglary input alarm.

Note: Use SEOL resistors on Fire zones only.

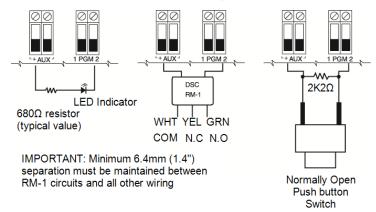


Figure 1-2 LED Output with Current Limiting Resistor and Optional Relay Driver Output.

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.

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

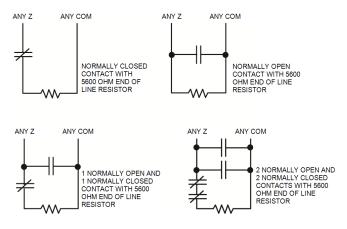


Figure 1-3 SEOL Wiring

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.

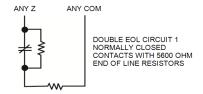


Figure 1-4 DEOL Wiring

Bell Wiring

These terminals supply 700mA of current at 10.4 - 12.5VDC 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.



Figure 1-5 Bell Wiring

The Bell output is supervised and power limited by 2A thermistor. If unused, connect a 1000Ω 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.

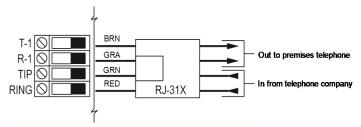


Figure 1-6 Telephone Line Wiring

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

Ground Wiring

Tighten nut to break paint and make a good connection to the cabinet

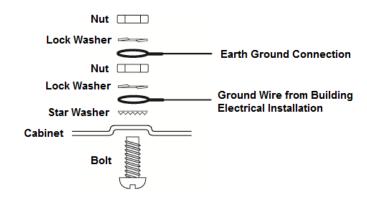


Figure 1-7 Ground Installation

Note: Using an insulated green wire (minimum 22AWG), connect the EGND terminal on the Corbus and the grounding wire from the building electrical installation to any of the available holes on the back or side of the metal cabinet. See the diagram attached to the cabinet for suggested GND point location and hardware recommendations.

Note: Wire and installation hardware not included.

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.

Table 1-5 Module Capacity

Module	HS2016	HS2032	HS2064/ HS2064 E	HS2128/HS2128 E
HSM2108 8 Zone expander	1	3	7	15
HSM2208 8 Output expander	2	4	8	16
Wireless Keypad: HS2LCDRF(P)4 HS2LCNRF(P)4 HS2LCDWF(P)(V)4	8	8	8	16
HS2TCHP Touchscreen Keypad	8	8	8	16
HSM2300 Power Supply 1A	3	3	3	4
HSM2204 4 High-current Output	1	1	3	4
HSM2HOSTx Transceiver	1	1	1	1
HSM2955	1	1	1	1

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 1-6 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 v1.3 for Neo v1.0 panels and DLS 5 v1.4+ for Neo v1.0 and up products.	For local DLS, use a PC-Link cable 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. The method for viewing and selecting programming options using LCD, LED and ICON keypads depends on the keypad type used. See below for specific instructions on programming with each keypad type.

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 (LCD) or by keying in the program section number. For toggle options, the name of the option is displayed (LCD) or LEDs 1-8 are illuminated (LED and ICON).

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 (LCD). 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

(LCD keypads only)

Use this section to set the language displayed by LCD keypads. 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 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	066 - Momentary Keyswitch Arm
018 - 24-Hour Bell/Buzzer	067 - Maintained Keyswitch Arm
023 - 24-Hour Supervisory	068 - Momentary Keyswitch Disarm
024 - 24-Hour Supervisory Buzzer	069 - Maintained Keyswitch Disarm
025 - Auto Verified Fire	071 - Door Bell

025 - Auto Verified Fire 071 - Door Bell 027 - Fire Supervisory 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 EOL
- 10 Single EOL
- 11 Double EOL
- 12 Fast/Normal Loop Response
- 13 Zone 2-way Audio Activation
- 14 Hold Up Verification

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.

Alternate Communicator Setup

The alternate communicator is an optional wireless or ethernet 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 3G (HSPA) or Ethernet.

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

- Install the alternate communicator and wire it to the alarm panel (use PCLINK_2 header)
- Enroll the alternate cellular communicator with Connect 24
- Set the communication path: [300]
- Enable the alternate communicator: [382] option 5
- Enable event reporting: [307]/[308]
- Program communication delay timer: [377]
- Program DLS access: [401] option 07

Refer to the 3G2080(R)/ TL2803G(R)/ TL280(R) installation manual 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.

To use PSTN as the communications path, program section [300] options 001 through 004 as [01] PSTN 1.

To use the alternate communicator to establish a communications path, program two of the receivers (section [300] options 001, 002, 003 or 004)

as [03] and [04] for Ethernet, and two of the receivers as [05] and [06] for cellular.

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

LED Indicators

Keypads have the following status lights that provide a visual indication of the status of the system.

Panel Status LED Operation

The red status LED, located on the alarm controller PCB, indicates the following:

- Power up sequence flashes rapidly until the end of the power-up sequence.
- Firmware indication flashes during the firmware upgrade process. If the firmware upgrade fails, the LED flashes rapidly.
- Trouble indication flashes when troubles are present. Troubles are indicated according to the following priority:
 - 1 flash no keypads enrolled
 - 2 flashes module supervision trouble
 - 3 flashes bus low voltage
 - 4 flashes low battery trouble
 - 5 flashes AC Trouble
 - 6 flashes AUX trouble
 - 7 flashes Bell trouble
 - 8 flashes TLM trouble

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.

LED and ICON keypads:

- Press [*][2] to view a trouble condition
- The trouble light flashes
- Refer to the trouble summary list below to determine the trouble condition(s) present on the system

[*][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.
- On LED/ICON keypads, zone indicator lights illuminate to identify existing trouble types (e.g., Zone light 1 represents Service Required trouble type). Press the number key corresponding to a zone light to view the specific trouble. Lights 1-12 illuminate to indicate the trouble as follows:

Table 1-7: Trouble Indications

Trouble 01 – Service Required:

- [01] Bell Circuit Trouble: The bell circuit is open.
- [02] RF Jam: The HSM2HOSTx has detected an RF Jam condition.
- $[03]\ {\rm Aux}\ {\rm Supply}\ {\rm Trouble};$ The alarm controller, HSM2204 or HSM2300 has an overcurrent condition on Aux.
- [04] Loss of Clock: System time and date require programming.
- [05] Output 1 Fault: An HSM2204 module has detected an open condition on output #1.

Trouble 02 – Battery Trouble:

- [01] Panel Low Battery Trouble: The battery voltage (under load) is below 11.5V. Restores at 12.5V.
- [02] Panel No Battery: No battery connected to alarm controller.
- [04] HSM2204 01 04 Low Battery: An HSM2204 has a battery voltage less than 11.5V
- [05] HSM2204 01 04 No Battery: No battery connected to HSM2204.
- $[07]\ \mathrm{HSM2300}\ 01$ 04 Low Battery: An HSM2300 has a battery voltage less than $11.5\mathrm{V}$
- [08] HSM2300 01 04 No Battery: No battery connected to HSM2300.

Trouble 03 – Bus Voltage:

- [01] HSM2HOSTx Bus Low Voltage: The HSM2HOSTx module has measured less than 6.3V on its Aux input.
- [02] Keypad 01 16 Bus Low Voltage: A hardwired keypad has a bus voltage of less than 6.9V for ICON/LCD (RF version) and 7.7V for non-RF models.
- $[04]~\mathrm{HSM2108}~01$ 15 Bus Low Voltage: A zone expander has a bus voltage of less than 5.9V.
- [05] HSM2300 01 04 Bus Low Voltage: A power supply has a bus voltage of less than $6.9\mathrm{V}$.
- [06] HSM2204 01 04 Bus Low Voltage: A high current output module has a bus voltage of less than 6.9V.
- [08] HSM2208 01 16 Bus Low Voltage: The low current output module has detected a voltage less than 5.9V on its aux input.
- [09] HSM2955 Bus Low Voltage: The audio module has detected a voltage less than 9.65V on its aux input.

Trouble 04 - AC Troubles:

- [01] Zone 001 128 AC Trouble: An AC trouble has been detected on a PGX934 PIR + Camera
- [03] Siren 01 16 AC: A siren has an AC trouble.
- [04] Repeater 01 08 AC: A wireless repeater has an AC trouble.
- [05] HSM2300 01 04 AC: An HSM2300 has an AC trouble.
- [06] HSM2204 01 04 AC: An HSM2204 has an AC trouble.
- [07] Panel AC: The alarm controller has an AC failure condition.

Trouble 05 – Device Faults:

- [01] Zone 001 128: A zone is in fault. Additional information displayed on LCD keypads for the following troubles: Fire Trouble (2-W Smoke, PGX916, PGX926), Freeze (PGX905), Self Test (PGX984), CO (PGX913), and Probe Disconnected (PGX905). Also generated by a short on hardwired zones when DEOL is used or by a wireless supervisory fault.
- [02] Keypad 01 16: A wireless or hardwired keypad is in fault.
- [03] Siren 01 16: A siren is in fault.
- [04] Repeater 01 08: A wireless repeater is in fault (supervisory or loss of AC/DC).

Trouble 06 – Device Low Battery:

- [01] Zone 001-128: Wireless zone has a low battery.
- [02] Keypad 01-16: Keypad has a low battery.
- [03] Siren 01 16: Siren has a low battery.
- [04] Repeater 01 08: Repeater has a low battery.
- [05] User 01 1000: Wireless Key has a low battery.

Trouble 07 – Device Tampers:

- [01] Zone 001 128 Tamper: A wireless or hardwired zone configured for DEOL operation is in tamper.
- [02] Keypad 01 16 Tamper: A hardwired or wireless keypad is in tamper.
- [03] Siren 01 16 Tamper: A wireless siren is in tamper.
- [04] Repeater 01 08 Tamper: A wireless repeater is in tamper.
- [05] Audio Station 01 04 Tamper: An audio station connected to an HSM2955 is in tamper.

Trouble 08 – RF Delinquency Trouble:

- [01] Zone 001 128 RF Delinquency: No response from a wireless zone for 13 minutes. This trouble prevents arming until acknowledged or cleared using [*][2].
- [02] Keypad 01 16 RF Delinquency: No response from a wireless keypad for 13 minutes
- [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 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.

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

Trouble 11 – Communications:

- [01] TLM: Telephone line disconnected from control panel.
- [02] Receiver 01-04 FTC Trouble: Failure to communicate using programmed receiver paths.
- [03] Alt. Comm SIM Lock: SIM card has incorrect or unrecognized PIN.
- [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 Absent: Alternate communicator unable to initialize a receiver.
- [07] Receiver 01-04 Supervision: Alternate communicator unable to communicate with
- [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 Trouble: 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 Trouble: 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 Trouble: 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 Trouble: 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 Trouble: Generated when a wireless key becomes out of sync with the wireless network or has not been synchronized with the network after enrollment.

IMPORTANT!

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

• Alarm controller type and version, (e.g., HSM2064 1.0):

Note: Version number can be accessed by entering [*][Installer Code] [900] on any LCD 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

- 16, 32, 64, or 128 wireless zones supported and up to 8 hardwired zones available on the controller
- 40 zone types and 14 programmable zone attributes
- Zone configurations available: normally closed, single EOL and DEOL supervised
- Hardwired zone expansion (fully supervised) available using the model HSM2108 (eight zone expander module)
- Wireless zone expansion (fully supervised) available using the HSM2Host 2-way wireless integration module (operating at 915MHz (North America), 433MHz (Europe) and 868MHz (international)

Access Codes

- Up to 1002 access codes: 1000 (level 2-EN), one installer code (level 3-EN), and one maintenance code
- Programmable attributes for each user code
- When using 8-digit access codes, the minimum number of variations are:

HS2016

HS2032: 1388888

HS2064/HS2128: 1052631

HS2064 E: 200000 HS2128 E: 100000

Warning Device Output

- Integral sounder capable of 85 dB @ 3m, self-powered type Z
- 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

Memory

- CMOS EEPROM memory
- Retains programming and system status on AC or battery failure for 20 years min.

Power Supply - International

- Input ratings: 220V-240Vac, 50/60Hz, 200mA
- Transformer required, mounted in the same enclosure, permanently connected
- Transformer secondary ratings: 16.5Vac, 40VA min.

Note: For installations using the transformer mounted inside the cabinet, replace fuse only with the same type (20mm) rated 250V/315mA.

Regulated power supply:

- 1.7A regulated, supervised and integral to the control unit
- Type A as per EN50131-6 Standard
- 700mA auxiliary supply, 12V DC
- Positive temperature coefficient (PTC) for Bell, Aux+ and Battery terminals
- · Reverse battery detection/protection

- Supervision for AC power and low battery
- Normal and high current battery charge options
- · Supervised battery charging circuit

Current draw (panel):

• 85mA (nominal) 2A(Max)

Bell Output:

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

Aux+:

- Voltage range = 9.6V 13.8V DC
- Current = 700mA (shared with Corbus R(ed))
- Output ripple voltage: 270mVp-p max.
- Onboard programmable outputs:
 - PGM 1 50mA switched programmable output
 - PGM 2 300mA current-limited switched programmable output. 2-Wire smoke detectors (90mA current limited) are supported using this PGM
 - PGM 3 50mA switched programmable output
 - PGM 4 50mA switched programmable output
 - Hardware PGM over current protection

Battery

- 12V sealed lead acid, rechargeable
- Battery capacity:
 - 12 hours (EN50131),
 - 24 hours INCERT [Belgium]

Note: For T 014 compliance (INCERT certification), only 14Ah (2x7Ah) batteries were tested and are accepted for INCERT certified systems.

- Maximum standby time: 24 hours (with 14Ah battery and Aux current limited to 470mA)
- Recharging time to 80% 72 hours
- Recharging rate: 240mA (12 hours max.), 480mA (24 hour backup)
- Backup time: 24 hours
- Battery lifespan: 3-5 years
- Low battery trouble indication threshold 11.5VDC
- Battery restore voltage 12.5V
- Main board current draw (battery only):
 - HS2016/32/64/128 (no alternate communicator) standby 85mA DC
 - HS2016/32/64/128, (including alternate communicator) standby 190mA DC
 - Transmit (alternate communicator module) 195mA DC
- · Resettable fuses (PTC) used on circuit board
- Supervision for loss of primary power source (AC fail), battery loss or battery low voltage (battery trouble) with indication

provided on the keypad

• Internal clock locked to AC power frequency

Operating Environmental Conditions

- Temperature range: $EN = -10^{\circ}C$ to $55^{\circ}C$ ($50^{\circ}F-131^{\circ}F$)
- Relative humidity: <93% 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 EN50136-1-1, EN50136-2-1, EN50136-2-3 ATS 2
- Optional Dual IP/Cellular communicators (3G2080(R)/ TL2803G (R)/ TL280(R)) can be installed in the same enclosure and configured as primary or back-up, with AES 128-bit encryption
- Compliant with EN50136-1-1, EN50136-2-1 ATS2 requirements

System Supervision Features

The PowerSeries Neo 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)

Additional Features

- · 2-way wireless device support
- Visual verification (images + audio)
- Proximity tag support
- · PGM scheduling
- · Ouick 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

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 Neo Reference Manual. - Default

Label Programming

000 Label Programming

000 - Language Selection (01)

001 – Zone Labels	018 – 24-Hour Bell/Buzzer	Bell Cutoff (004 min.)	5 –]
001-128 – Zone Labels 1-128	023 – 24-Hour Supervisory	Bell Delay Time (000 min.)	6 - 1
051 – Zone Tamper Label	024 – 24-Hour Supervisory	Burglary Verification Timer	7 – 1
052 – Zone Fault Label	Buzzer	(060 sec.)	8 - 1
064 – CO Alarm Message	025 – Auto Verify Fire	Holdup Verification Timer	001-164
065 – Fire Alarm Message	027 – Fire Supervisory	(008 sec.)	Assignm
066 - Fail to Arm Event Message	040 – 24-Hour Gas	Zone Loop Response (250 ms)	1-8
067 - Alarm When Armed Event	041 – 24-Hour CO	Automatic Clock Adjust (060	008 – PGM T
Message	042 – 24-Hour Holdup	sec.)	000 - PC
100 – System Label	043 – 24-Hour Panic	001 - 008 System Times - Partition	Seconds
101-108 - Partition 1-8 Labels	045 – 24-Hour Heat	1-8	001-164
201- 208 - Partition 1-8 Command	046 – 24-Hour Medical*	Entry Delay 1 (030 sec.)	009 – PGM T
Output Labels	047 – 24-Hour Emergency	Entry Delay 2 (045 sec.) (CP-	001-164
001-004 - Command output 1-	048 – 24-Hour Sprinkler	01 030 sec.)	Assignm
4 Labels	049 – 24-Hour Flood	Exit Delay (120 sec.) (CP-01	PGM2=1
601-604 - Schedule 1- 4 Labels	051 – 24-Hour Latching	060 sec.)	100
801 – Keypad Labels	Tamper	Settle Delay (010 sec.) (CP-	101
001-016 Keypad 1-16 Labels	052 – 24-Hour Non-Alarm	01 000 sec.)	Foll
802 – Zone Expander Labels	056 – 24-Hour High	900 – Bell Delay Partition Mask	102
001-015 – Zone Expander 1-	Temperature	(Y,Y,Y,Y,Y,Y,Y)	103
15 Labels	057 – 24 Hour Low	901 – Daylight Savings Begin:	104
803 - Output Expander Labels	Temperature	Month (003)(AUS 010)(NZ	109
001 Output Expander 1 Label	060 – 24-Hour Non-Latching	009)(SA 004)(FRA 004)	111
806 – HSM2HOST Label	Tamper	Week (005)(AUS 005)(NZ	114
808 – HSM2955 Label	066 – Momentary Keyswitch	005)(SA 001)(CE 005)(C 005)	115
809 – Power Supply Label	Arm	(FRA 001)(UK 005)	116
001-004 Power Supply 1-4	067 - Maintained Keyswitch	Day (000)	117
Label	Arm	Hour (001)(CE 001)(C 001)	120
810 - High Current Output Supply	068 - Momentary Keyswitch	(UK001)	Zon
Label	Disarm	Increment (001)	121
001-004 Power Supply 1-4	069 - Maintained Keywsitch	902 – Daylight Savings End	122
Label	Disarm	Month (010)(AUS 003)(NZ	123
815 – Alternate Communicator	071 – Doorbell Zone	004)(SA 010)(C 010)(FRA	124
Label	072 – Push to Set	010)(UK 010)	129
820 – Siren Label	002 – Zone Attributes	Week (005)(AUS 005)	Mer
001-016 Siren 1-16 Label	001-0128 (see PowerSeries Neo	(SA 005)(FRA 005)(UK 005)	132
821 – Repeater Label	reference manual for defaults)	Day (000)	134
001-008 Repeater 1-8 Label	1 – Bell Audible	Hour (002)(001)(NZ 003)(CE	135
999 – Default Labels	2 – Bell Steady	001)(C 001)(UK 001)	146
Zone Type	3 – Door Chime	Decrement (001)	147
001 Zone Type	4 – Bypass Enabled	Access Codes	148
001-128 Zone Types (000)	5 – Force Arm	006 Installer Defined Access Codes	149
000 – Null Zone	6 – Swinger Shutdown		Con
	~	(4-digit decimal)	

7 - Transmission Delay

10 - Single EOL

11 - Double EOL

Response

Activation

8 - Burglary Verification

9 - Normally Closed EOL

12 - Fast Loop/Normal Loop

13 – Zone 2-way Audio

14 – Holdup Verification

$\frac{\mathbf{Z}}{\mathbf{0}}$

000 - Null Zone 001 - Delay 1 002 - Delay 2 003 - Instant004 - 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

System Times 016 - Final Door Set 005 System Times 017 – 24-Hour Burglary 000 - System Area 001 - Installer Code (5555555) 002 - Master Code (12345678) 003 - Maintenance Code (AAAAAAA) 004 - Guard Code

(AAAAAAA) **PGM Programming** 007 - PGM Programming

000 - Main Bell Partition Assignment

1 - Partition 1 2 - Partition 2 3 - Partition 3 4 - Partition 4 - Partition 5

- Partition 6

- Partition 7

- Partition 8

4 – PGM 1-164 Partition ment (default: partition 1)

8 – Partition 1-8

Timer Programming

PGM Timer-Minutes or ls (seconds)

4 – PGM 1-164 Timer (005)

Types

4 - PGM 1-164 Type ment (default: PGM1=121, =156, 3-164=101)

0 – Null PGM

1 - Burg and Fire Bell

ollower

2 – Delayed Fire and Burg

3 – Sensor Reset [*][7][2]

4 – 2-Wire Smoke

9 - Courtesy Pulse

1 - Keypad Buzzer Follow

4 - Ready To Arm

5 – System Armed Status

6 – Away Armed Status

7 - Stay Armed Status

0 – Away Armed with no

one Bypass Status

1 - Command Output 1

2 – Command Output 2

3 – Command Output 3

4 – Command Output 4

9 - Partition Status Alarm

emory

2 – Holdup Output

4 – 24Hr Silent Input

5 – 24Hr Audible Input

6 – TLM and Alarm

7 – Kissoff

8 - Ground Start

9 – 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

200 - Zone Follower

201 - Follower-Zones 1-8

202 - Follower-Zones 9-16

203 - Follower-Zones 17-24

√= Default

204 - Follower-Zones 25-32 02 − Timed Output 🗸 201- 216 Zone Follow Zones 1-128 1 - Chime On Opening 205 - Follower-Zones 33-40 04 - Fire Alarm 01 − True Output 🗸 2 - Chime On Closing 206 - Follower-Zones 41-48 05 - Panic Alarm 02 - Timed Output 3 - RF Jam Audible 207 - Follower-Zones 49-56 06 - Burglary Alarm 04 - Latching 4 - Multi-Hit208 - Follower-Zones 57-64 07 - Open/Close 05 - Follow Alarm 5 - Late to Close 209 - Follower-Zones 65-72 08 - Zone Auto Bypass 09-016 - Zone Terminal 1-16 6 - Daylight Savings Time 210 - Follower-Zones 73-80 09 - Medical Alarm 011 PGM Configuration Options 7 - Silence Chime During Quick 211 - Follower-Zones 81-88 10 - Burglary Verified 001-164 - PGM 1-164 Exit Delay 212 - Follower-Zones 89-96 11 - Open after Alarm Configuration 8 - Bell Squawk on Away 213 - Follower-Zones 97-104 12 - Emergency Alarm Zone Follower by Zone Arm/Disarm Only 214 - Follower-Zones 105-112 13 - Duress Alarm Proximity Tag Used 018 System Options 6 215 - Follower-Zones 113-120 14 - Holdup Verified Command Output Schedules 1 - Test Transmission Exception 155 - System Trouble 216 - Follower-Zones 120-128 012 System Lockout (attempts/min.) 2 - Real-Time Bypass Reporting 010 PGM Attributes 01 − True Output 🗸 Keypad Lockout Attempts 3 - Armed State PGM ON at End 000 - Main Bell Mask 02 - Timed Output (000)of Exit Delay Fire Alarm 🗸 04 − Service Required ✓ Keypad Lockout Duration 4 - Not Used CO Alarm 🗸 05 – Loss of Clock ✔ (000)5 - Keypad Buzzer Alarm Burglary Alarm 🗸 06 – AC Fail ✔ Remote Lockout Attempts 6 - Not Used 24-Hour Flood Alarm 🗸 07 – DC Fail ✔ 7 – Exit Delay Restart (CP-01 ✔) (006)Bell Squawks 🗸 08 – TLM ✔ Remote Lockout Duration 8 – AC Fail Trouble Beeps 🗸 001-164 PGM 1-164 Attributes 09 - FTC ✓ 019 System Options 7 (060)100 - Null PGM 10 – Ethernet ✔ 1 - Audible Wireless Zone Fault **System Options** 101 - Fire and Burglary 11 – Zone Fault ✔ 2 – Latching Troubles (UK ✔) 013 System Options 1 01 − True Output 🗸 12 – Zone Tamper ✔ 3 - Not Used 1 - NC Loop/EOL 4 - R-Button 03 – Code Required ✔ 13 – Zone Low Battery ✔ 2-DEOL/SEOL102 - Delay Fire and Burglary 156 - Latched System Event 5 – Audible Bus Fault (UK ✔) 3 - Show All Troubles when 01 - True Output 01 − True Output 🗸 6 - Duress Codes Armed 🗸 103 – Sensor Reset [*][7][2] 02 - Timed Output 7 – Temperature in Celsius ✔ 4 - Tamper/Faults Do Not show as 03 - Code Required 04 − Fire Alarm 🗸 8 - Reset After Zone Activation 109 - Courtesy Pulse 05 – Panic Alarm ✔ 5 - Auto-Arm Schedule in [*][6] 020 System Options 8 06 – Burglary Alarm ✔ 01 - True Output 1 – Access Code Entry During 111 - Keypad Buzzer Follow 07 – Medical Alarm ✔ Entry Delay 6 – Audible Exit Fault ✔ 01 − True Output 🗸 08 – Supervisory ✓ 2 – EU Entry Procedure (UK ✔) 7 - Event Buffer Follows Swinger 02 - Timed Output 09 – Priority Event 🗸 3 - [*][8] Access While Armed 09 – Entry Delay 🗸 10 − Holdup 🗸 4 - Remote Reset 8 - Temporal Three Fire Signaling 10 – Exit Delay ✔ 11 – Duress ✔ 014 System Options 2 5 - Engineer's Reset 11 – Door Chime ✔ 12 − Emergency ✓ 6 - Keyswitch Disarming During 1 - Bell Squawk 12 – Keypad Buzzer Zone ✔ 13 − Fire Supervisory ✓ Entry Delay 2 - Bell Squawk Auto-Arm 13 – Audible Exit Fault ✓ 14 − Fire Trouble ✓ $7-In staller\ Access\ and\ DLS$ 3 – Bell Squawk on Exit 14 – Auto-Arm Pre-Alert ✔ 15 – CO Alarm ✓ 8 - Troubles Inhibits Arming (UK 4 – Bell Squawk on Entry 114 - Ready To Arm 157 - System Tamper 5 - Bell Squawk on Trouble **v**) 01 − True Output ✓ 01 − True Output 🗸 021 System Options 9 6 - Not Used 115 - Armed Status 02 - Timed Output 1 – Trbl Display 7 - Exit Delay Termination 01 − True Output 🗸 09 – Module Tamper ✔ 2 - Keypad Blanking while armed 8 - Fire Bell Continues 116 - Armed Away Mode 10 – Zone Tampers ✓ (UK ✓) 015 System Options 3 01 − True Output 🗸 161 - DC Trouble 3 - Auto-Arming Bypass 1 – [F] Key ✓ 117 - Armed Stay Mode 01 − True Output 🗸 4 - Ready Display 2 - [P] Key Annunciation 01 − True Output 🗸 02 - Timed Output 5 - PGM Keypad Blanking 3 - Quick Exit 121 - 124 - Command Output 1-4 09 – Battery Low ✓ 6 - Armed Display 4 - Quick Arming/Function Key 01 − True Output 🗸 10 – Battery Absent ✔ 7 - Open Cancels Arming (UK 02 – Timed Output ✔ 165 - Prox Used 5 – Not Used 03 – Code Required ✓ 01 − True Output 🗸 6 - Master Code Not User 8 - Audible Exit Delay for Stay (NZ off) 166 - Partition Prox Used Arming Changeable 129 - Partition Status Alarm 01 − True Output 🗸 022 System Options 10 7 – Telephone Line Monitor Memory 175 - Bell Prog Access 1 - [F] Key Option Enable 🗸 01 − True Output 🗸 01 − True Output 🗸 8 - TLM Audible When Armed 2 - Not Used 132 - Holdup Output 176 - Remote Operation 3 - Not Used 016 System Options 4 01 − True Output 🗸 01 − True Output 🗸 4 - Test Transmission Counter in 1 – AC Trouble Display ✔ 02 - Timed Output 184 – Open After Alarm 2 – AC Trouble Light Flashes 146 - TLM and Alarm 01 − True Output 🗸 3 - Keypad Blanking 5 – Away to Stay Toggle 01 − True Output 🗸 02 – PGM Timer ✔ 6 – 2-Way Full Duration ✓ 4 - Keypad Blanking Requires 147 - Kissoff Output 200 Zone Follower - Single Zone 7 – Trouble Beeps Are Silent Code

√= Default

1 - Ready LED Flash for Force

8 - Keyswitch Arms in Away

Mode (UK ✓)

023 System Options 11

5 – Keypad Backlighting ✔

7 - Bypass Display When Armed

8 - Keypad Tampers Enabled

6 - Power Save Mode

017 System Options 5

01 − True Output 🗸

02 - Timed Output

03 - Code Required

05 - Follow Alarm

04 - Latching

01 − True Output 🗸

01 − True Output 🗸

01 − True Output 🗸

149 - Alternate Communicator

148 - Ground Start

2 – Not Used	Saturday	001 – 004 Phone Number 1 -4	01 – Automatic Closing ✔
3 – Tamper/Fault Detection	002 – Auto-Disarm Times (9999)	Programming (DFFF32-digit)	02 – Automatic Disarm ✔
4 – Access Code Required for [*]	24-Hour	304 Call Waiting Cancel String	03 – Auto Arm
[1]	Sunday	(DB70EF)	Cancellation/Postpone 🗸
5 – Access Code Required for [*]	Monday	Event Reporting	211 – Miscellaneous Open/Close
[2]	Tuesday	307 Zone Reporting	Events
6 – Access Code Required for [*]	Wednesday	001-128 Zone Reporting for Zones	01 – Late to Close ✓
[3]	Thursday	1-128	02 – Late to Open ✔
7 – Access Code Required for [*]	Friday	01 − Alarm ✓	05 – Exit Fault ✔
[4]	Saturday	02 – Alarm Restore ✔	221 – Bypass Events
8 – [*][6] Accessibility	003 – Auto-Disarming Holiday	03 – Tamper ✓	01 – Auto Zone Bypass
024 System Options 12	Schedule	04 – Tamper Restore ✓	02 – Auto Zone Unbypass
1– 50Hz AC / 60 Hz AC (EN ✔)	Holiday 1	05 − Fault ✓	03 − Partial Closing ✓
(AUS ✔)(NZ ✔)(CHN ✔)(SA	Holiday 2	06 − Fault Restore ✓	301 – Panel Events 1
✓)(CE ✓)(FRA ✓)(UK ✓)	Holiday 3	308 Event Reporting	01 – Panel AC Fail Trouble
2 – Crystal Timebase	Holiday 4	001 – Miscellaneous Alarm 1	✓
3 – AC/DC Inhibits Arming(UK	004 – Auto-Arming Pre-Alert	01 – Duress Alarm ✓	02 – Panel AC Fail Restore
V)	(004)	02 – Opening After Alarm ✓	v
4 – Tamper Inhibit Arm	005 – Auto-Arming Postpone	. •	03 – Panel Low Battery ✓
5 – Real Time Clock Option	Timer (000)	03 – Recent Closing Alarm ✓	04 − Panel Low Battery
6 – Not Used	006 – No Activity Arming Timer	04 – Zone Expander	Restore
		Supervisory Alarm 🗸	
7 – Option 7 (AC Brownout	(000)	05 – Zone Expander	05 – Panel Battery Absent 🗸
Detection) This option must be	007 – No Activity Arming Pre-	Supervisory Alarm Restore	06 – Panel Battery Absent
enabled for UL/ULC Commercial	Alert Timer (001)	/	Trouble Restore
Fire Installations.	200 Partition Mask	06 – Burglary Verified ✓	302 – Panel Events 2
8 – DLS Disconnect	001 – Partition 1 to 8 Enable Mask	07 – Burg Not Verified Alarm	01 − Bell Circuit Trouble ✓
025 System Options 13	1 − Partition 1 ✓	20 11 0 1 1	02 − Bell Circuit Restore ✓
1 – European Dial(EN ✔)(AUS	2 – Partition 2	08 – Alarm Cancel ✔	03 – Telephone Line Trouble
✓)(BRAZIL ✓)(SA ✓)	3 – Partition 3	002 – Miscellaneous Alarm 2	/
(CE ✔)	4 – Partition 4	01 – Holdup Verified Alarm	04 – Telephone Line Trouble
2 – Force Dial ✓	5 – Partition 5	/	Restore 🗸
3 – Test Transmission Counter in	6 – Partition 6	011 – Priority Alarms	05 – Auxiliary Trouble ✔
Minutes	7 – Partition 7	01 – Keypad Fire Alarm-F	06 – Auxiliary Trouble
4 – Not Used	8 – Partition 8	Key 🗸	Restore 🗸
5 – ID Tone	201-208 Partition 1-8 Zone	02 – Keypad Fire Restore ✔	305 – Panel Events 5
6 – Tone Generated-2100Hz	Assignment	03 – Keypad Medical Alarm-	03 – PGM 2 2-Wire Trouble
7 – 1 Hour DLS Window	001 − Zone 1-8 🗸	M Key 🗸	V
8 – FTC Audible Bell	002 − Zn 9-16 🗸	04 – Keypad Medical Restore	04 – PGM 2 2-Wire Restore
040 User Authentication	003 – Zn 17-24	✓	✓
01 – User Code or Proximity Tag	004 – Zn 25-32	05 – Keypad Panic Alarm (P)	311 – Maintenance Events 1
✓	005 - Zn 33-40	✓	01 − RF Jam Trouble 🗸
02 – User Code and Proximity Tag	006 – Zn 41-48	06 – Keypad Panic Restore 🗸	02 – RF Jam Trouble Restore
	007 – Zn 49-56		✓
041 Access Code Digits	008 – Zn 57-64	07 – Auxiliary Input Alarm	03 − Fire Trouble 🗸
00 – 4-Digit Access Codes ✔	009 – Zn 65-72	✓	04 – Fire Trouble Restore ✔
01 – 6-Digit Access Codes	010 – Zn 73-80	08 – Aux Input Alarm Restore	05 − Cold Start 🗸
02 – 8-Digit Access Codes	011 – Zn 81-88	✓	06 – Delinquency ✔
042 Event Verification	012 – Zn 89-96	021 – Fire Alarms 1	07 – Self Test Trouble ✔
01 – Burglary Verified Counter	013 – Zn 97-104	03 – PGM 2 2-Wire Alarm ✔	08 – Self Test Trouble
(002)(UK 003)	014 – Zn 105-112	04 – PGM 2 2-Wire Restore	Restore 🗸
02 – Holdup Counter (002)	015 – Zn 113-120	✓	312 – Maintenance Events 2
03 – Burglary Verification	016 – Zn 121-128	101 – Tamper Events	01 – Installer Lead IN 🗸
Selection	300 Panel/Receiver Communications	03 – Module Tamper ✓	02 – Installer Lead OUT 🗸
001 − Police Code 🗸	Path	04 – Module Tamper Restore	03 – DLS Lead IN ✔
002 – Cross Zoning	001 – 004 Receiver 1-4	✓	04 − DLS Lead OUT 🗸
003 – EU Sequential	01 − Phone Line 🗸	05 − Keypad Lockout 🗸	05 – SA Lead IN
Detection (UK 🗸)	02 - Alt Comm Auto Routing	07 − Remote Lockout ✓	06 – SA Lead OUT
151-158 Partition 1-8 Auto-	03 – Alt Comm Rec 1-	201 – Open/Close Events 1	07 – Event Buffer 75% Full
Arm/Disarm	Ethernet	01 – User Closing ✔	✓
001 – Auto-Arming Times (9999)	04 – Alt Comm Rec 2-	02 – User Opening ✔	313 – Maintenance Events 3
24-Hour	Ethernet	03 – Future Use	01 – Firmware Update Begin
Sunday	05 – Alt Comm Rec 3-	04 – Future Use	✓
Monday	Cellular	05 − Special Closing ✓	02 – Firmware Update
Tuesday	06 – Alt Comm Rec 4-	06 – Special Opening ✓	Success 🗸
Wednesday	Cellular	07 – Keyswitch Opening ✓	03 – Firmware Update Fail
Thursday	301 Phone Number Programming	08 – Keyswitch Closing ✓	314 – Maintenance Events 4
Friday		202 – Open/Close Events 2	01 − Gas Trouble ✓
J			

02 – Gas Trouble Restore ✔ 03 - Alt. Comm Receiver 2 001 - Partition Burglary 2 - Restore on Bell Timeout 03 – Heat Trouble ✔ Alarm/Restore Call Direction 3 – Pulse Dialing 04 – Heat Trouble Restore ✔ 04 - Alt. Comm Receiver 2 1 – Receiver 1 ✔ 4 - Pulse Dial After 5th Attempt 05 − Freeze Trouble 🗸 Restore 🗸 2 - Receiver 2 5 - Parallel Communications 06 - Freeze Trouble Restore 05 - Alt. Comm Receiver 3 3 - Receiver 3 6 – Alternate Dial 🗸 7 - Reduced Dialing Attempts 4 - Receiver 4 07 – Probe Disconnected ✓ 06 - Alt. Comm Receiver 3 002 - Partition Tamper/Restore 8 – Activity Delinquency 08 - Probe Disconnect Restore 🗸 Call Direction 381 Communicator Option 2 Restore 🗸 07 - Alt. Comm Receiver 4 1 – Receiver 1 ✓ 1 - Keypad Ringback 321 - Receiver Events 2 - Receiver 2 2 - Bell Ringback 08 - Alt. Comm Receiver 4 02 - Receiver 1 FTC Restore 3 - Receiver 3 4 – Closing Confirmation Restore 🗸 4 - Receiver 4 8 - Communications Priority 04 - Receiver 2 FTC Restore 355 - Alternate Communicator 5 003 - Partition Opening/Closing 382 Communicator Option 3 01 - Alt. Comm Receiver 1 Call Direction 1 - Test Transmission Reciever 06 - Receiver 3 FTC Restore Supervision Failure 🗸 1 – Receiver 1 ✔ 2 - Walk Test Communication (UK **✓**) 02 - Alt. Comm Receiver 1 2 - Receiver 2 08 - Receiver 4 FTC Restore Supervision Failure Restore 3 - Receiver 3 4 - Call Waiting Cancel 4 - Receiver 4 5 - Alternate Communicator 331 - Module Events 1 03 - Alt. Comm Receiver 2 350 Communicator Formats (04 -Enable 01 − Module AC Trouble 🗸 Supervision Failure 🗸 SIA) 6 - AC Failure TX in Hours 02 - Module AC Trouble 04 - Alt. Comm Receiver 2 001- Communicator Format -8 – Tamper Limit (UK ✓) Restore 🗸 Supervision Failure Restore Receiver 1 383 Communicator Option 4 002- Communicator Format -1 - Phone Number Account Code 03 - Module Battery Trouble 05 - Alt. Comm Receiver 3 Receiver 2 2 - 6-Digit Account Code 04 - Module Battery Trouble Supervision Failure 🗸 003- Communicator Format -5 - Communicate FTC Events 06 - Alt. Comm Receiver 3 Restore 🗸 Receiver 3 384 Communicator Backup Options 05 - Module Battery Absent Supervision Failure Restore 004- Communicator Format -2 - Backup Options - Receiver 2 Receiver 4 06 - Module Battery Absent 07 - Alt. Comm Receiver 4 377 Communication Variables 3 - Backup Options - Receiver 3 Restore 🗸 4 - Backup Options - Receiver 4 Supervision Failure 🗸 001 - Swinger Shutdown Attempts 08 - Alt. Comm Receiver 4 Alarms and Restore (003) 385 Audio Module Talk/Listen Mask 332 - Module Events 2 Supervision Failure Restore 01 – Module Low Voltage ✔ (CP-01 002 sec.) 1 - Talk/Listen on Phone Number 02 - Module Low Voltage - Tampers and Restore (003) Restore 🗸 361 - Wireless Device Events - Maintenance and Restore 2 - Talk/Listen on Phone Number 03 − Module Supervisory ✓ 01 – Device AC Fail ✔ (003)04 - Module Supervisory 02 – Device AC Restore ✔ 002 - Communication Delays 3 - Talk/Listen on Phone Number Restore 🗸 03 – Device Low Battery ✔ - Zone Delay (000 sec.)(CP-05 – Module Aux Trouble ✔ 04 - Device Low Battery 01 030 sec.) 4 - Talk/Listen on Phone Number 06 - Module Aux Trouble Restore 🗸 - AC Failure Communication Restore 🗸 05 – Device Fault ✔ Delay (030 min./hrs.) **DLS Programming** 335 - Module Events 5 06 – Device Fault Restore ✔ - TLM Trouble Delay (010 401 DLS/SA Options 01 – Output 1 Fault ✓ 401- System Test Events sec. x 3) 1 – Double Call (C ✓) 01 - Walk Test Start ✔ 02 - Output 1 Fault Restore - WLS Zone Low Battery 2 – User Enables DLS ✓ (C off) 02 - Walk Test End 🗸 Transmission Delay (007 3 - DLS Callback 351 - Alternate Communicator 1 03 - Periodic Test days) 4 - User Call Up 01 - Alt. Comm. Module Transmission 🗸 - Delinquency Transmission 6 - Panel Call-Up and Baud Rate Comm Fault 🗸 04 - Periodic Test Delay (030 hours/days) 7 – Alt. Comm DLS 🗸 02 - Alt. Comm. Module Transmission with Trouble 🗸 - Communications Cancel 402 DLS Phone Number Comm Fault Restore 🗸 05 – System Test ✔ Window (000 min.) (CP-01 Programming (31-digit decimal) 07 - Alt. Comm. Radio/SIM Communications 005 sec.) 403 DLS Access Code (default is Failure 🗸 003 - Periodic Test Transmission based on model) 309 System Call Direction 08 - Alt. Comm. Radio/SIM Cycle (030 hrs./days) 001- Maintenance Events HS2128 Models (212800) Failure Restore 004 - Periodic Test Transmission HS2064 Models (212800) 1 – Receiver 1 ✓ 352 - Alternate Communicator 2 Time of Day (9999) HS2032 Models (212800) 2 - Receiver 2 01 - Alternate Comm. 011 - Maximum Dialing Attempts HS2016 Models (212800) 3 - Receiver 3 Network Fault 🗸 4 - Receiver 4 404 DLS/SA Panel ID (default is 012 - PSTN Delay (003 sec.) 02 - Alt. Comm. Network 002 - Test Transmission Events based on model) 013 - Delay Between Force Fault Restore 🗸 HS2128 Models (2128000000) 1 – Receiver 1 ✔ 05 – Alt. Comm. Ethernet ✔ Attempts (020 sec.) HS2064 Models (2064000000) 2 - Receiver 2 014 - Post Dial Wait for 06 - Alt. Comm. Ethernet 3 - Receiver 3 HS2032 Models (2032000000) Trouble Restore Handshake (040 sec.) HS2016 Models (2016000000) 4 - Receiver 4 354 - Alternate Communicator 4 015 - T-Link Wait for Ack (060 405 PSTN Double Call Timer (060 310 Account Codes 01 - Alt. Comm Receiver 1 000 - System Account Code sec.) 016 - IP/Cellular Fault Check 406 PSTN Number of Rings to (FFFF) 02 - Alt. Comm Receiver 1 Timer (010) Answer On (000) 001-008 - Partition 1-8 Account 407 SA Access Code (FFFFFF) 380 Communicator Option 1 Restore 🗸 Code (FFFF)

410 Automatic DLS Options

311-318 Partition 1-8 Call Direction

1 – Communications Enabled ✔

001 – Automatic DLS Toggle	12 – Holiday 4 201 – Interval	614 – Number of Rings to Answer	05 – No Entry Arm
Options	2 Start Time (0000)	(00)	06 – Chime On/Off
1 – Periodic DLS	402 – Interval 4 End Time (0000)	615 – Audio Duration (90 sec.)	07 – System Test
3 – DLS on Event Buffer 75%	403 – Interval 4 Days Assignment	616 – Record Time (105 sec.)	09 – Night Arm
Full	, ,	617 – Erase Timer (15 min.)	12 – Global Stay Arm
	01 – Sunday	· · · · · · · · · · · · · · · · · · ·	_
8 – DLS On Programming	02 – Monday	606 – Audio Station Tamper	13 – Global Away Arm
Change	03 – Tuesday	Option 1	14 – Global Disarming
002 – Periodic DLS Days (000	04 – Wednesday	01 – Audio Station 1 Tamper	16 – Quick Exit
days)	05 – Thursday	02 – Audio Station 2 Tamper	17 – Arm Interior
003 – Periodic DLS Time (0000)	06 – Friday	03 – Audio Station 3 Tamper	21-24 – Command Output 1-4
007 – Delay Call Window	07 – Saturday	04 – Audio Station 4 Tamper	29 – Bypass Group Recall
– Delay Call Window Start	404 – Interval 4 Holiday	1	31 – Local PGM Activate
•		Wireless Programming	
(0000)	Assignment	804 Wireless Programming	32 – Bypass Mode
- Delay Call Window End	09 – Holiday 1	000 – WLS Device Enrollment	33 – Bypass recall
(0000)	10 – Holiday 2	Zones (3-digit decimal)	34 – User Programming
560 Virtual Inputs (000)	11 – Holiday 3	Zone Type (2-digit decimal)	35 – User Functions
001 - 032 - Virtual Input 1-32	12 – Holiday 4	Partition Assignment	37 – Time/Date Programming
Schedule Programming	711-714 Holiday Group 1-4	Zone Label (LCD only)	39 – Trouble Display
601-604 Programming Schedule 1-4	001 – 099 Holiday Group 1-4 Date	WLS Keys	40 – Alarm Memory
	1-99 (000000, MMDDYY)	· ·	61-68 – Partition Select 1-8
101 – Interval 1 Start Time (0000)		Partition Assignment	
102 – Interval 1 End Time (0000)	Audio Station Programming	User Assignment	011 – Keypad I/O (000)
103 – Interval 1 Days Assignment	802 Audio Station Assignment	Sirens	012 – Local PGM Output Timer
01 – Sunday	001 - 128 - Station Assignment 1 -	Partition Assignment	Pulse Time (00 minutes)
02 – Monday	128 (00)	Siren Label (LCD only)	Pulse Time (05 sec.)
03 – Tuesday	600 – 2-Way Audio Trigger Option	Keypads	021 – Keypad Option 1
04 – Wednesday	1	Keypad Assignment	1 – [F] Key Enabled ✓
05 – Thursday	01 – Tampers	Keypad Label (LCD only)	2 – [M] Key Enabled ✓
•	*	**	3 − [P] Key Enabled ✓
06 – Friday	03 − [A] Key Alarm ✓	Repeaters	4 – Display Code or X's ✓
07 – Saturday	04 – [P] Key Alarm ✔	Repeater Label (LCD only)	* *
104 – Interval 1 Holiday	05 – Duress Alarm ✔	001 - 128 – Configure Wireless	022 – Keypad Option 2
Assignment	06 – Opening After Alarm ✔	Zones	1 – Local Clock Display ✓
09 – Holiday 1	07 – Future Use	Defer to the installation instructions	2 – Local Clock Display 24 Hour
10 – Holiday 2	08 – Zone Supervision Alarm	Refer to the installation instructions	3 – Auto Alarm Scroll ✔
11 – Holiday 3	603 – 2-Way Audio Control Option	provided with the HSM2Host for	5 – Power LED Option ✔
12 – Holiday 4	1		6 – Power LED AC Present ✔
-		more wireless programming	7 – Alarms Displayed if Armed ✔
201 – Interval 2 Start Time (0000)	01 – Future Use	options.	8 – Auto Scroll Open Zones ✓
202 – Interval 2 End Time (0000)	02 – Listen to all zones /	•	-
203 – Interval 2 Days Assignment	Listen to zones in alarm 🗸	850 Cellular Signal Strength	023 – Keypad Option 3
01 – Sunday	03 – Future Use	851 Alternate Communicator	1 – Armed LED Power Save*
02 – Monday	04 – Siren Active During 2-	Programming	2 – Keypad Show Arm Mode ✓*
03 – Tuesday	Way Audio	Defends the installation instructions	3 – 5th Terminal is PGM
04 – Wednesday	05 – Hang-Up Auto Detection	Refer to the installation instructions	Output/Zone
05 – Thursday	06 – User Call-In	provided with the alternate	4 – Prox Tag Arm/Disarm
06 – Friday	07 – Future Use	•	7 – Local Display of Temp.
		communicator for details.	8 – Low Temperature Warning
07 – Saturday	08 – 2-Way Audio Initiated by	Keypad Programming	030 – LCD Message (16 x 2 hex)
204 – Interval 2 Holiday	CS ✔		0 \
Assignment	605 – Record Options	860 Keypad Slot Number	031 – Download LCD Message
09 – Holiday 1	01 – Audio Capture Enable 🗸	861-876 Keypad Programming	Duration (000)
10 – Holiday 2	02 – Erase on FTC	000 – Keypad Partition Mask	041 – Indoor Temperature Zone
11 – Holiday 3	606 - Audio Station Record	00 – Global Keypad	Entry (000)
12 – Holiday 4	Control Option 1	01 − Partition 1 🗸	042 – Outdoor Temperature Zone
301 – Interval 3 Start Time (0000)	01 – Audio Station 1 Record	02 – Partition 2	Entry (000)
302 – Interval 3 End Time (0000)	V	03 – Partition 3	101-228 - Door Chime Sound-Zone
` '		04 – Partition 4	1-128
303 – Interval 3 Days Assignment	02 – Audio Station 2 Record	05 – Partition 5	00 – Disabled
01 – Sunday	✓	06 – Partition 6	01 − 6 beeps ✓
02 – Monday	03 – Audio Station 3 Record		02 – "Bing-Bong" Sound
03 – Tuesday	✓	07 – Partition 7	
04 – Wednesday	04 - Audio Station 4 Record	08 – Partition 8	03 – "Ding-Dong" Sound
05 – Thursday	✓	001 – Function Key 1 (03)	04 – Alarm Tone
06 – Friday	610 – Call Back / Recovery	002 – Function Key 2 (04)	05 – Zone Name
07 – Saturday	Window Duration (05)	003 – Function Key 3 (06)	899 Template Programming
•	` <i>'</i>	004 – Function Key 4 (22)	- 5-Digit Template Code (5-digit
304 – Interval 3 Holiday	611 – Call Back Acknowledge	005 – Function Key 5 (16)	decimal)
Assignment	code (9999)	00 – Null Key	- Central Station Telephone
09 – Holiday 1	612 – Answering Machine Bypass	02 – Instant Stay Arm	Number (32-digit decimal)
10 – Holiday 2	(00)	•	- Central Station Account Code
11 – Holiday 3	613 – Double Call Timer (030)	03 – Stay Arm	
•		04 – Away Arm	(4/6-digit decimal)

- Partition Account Code (4-digit decimal)

- DLS Access Code (6-digit decimal)

- Partition Entry Delay (000-255

- 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

101-116 - 8-HSM2108 1-16

Version Info

201-216 - HSM2208 Version

Information

460 - Alternate Communicator

461 - HSM2HOST Version Info

481 - HSM2955 Version Info

501 - 504 HSM2300 1-4 Version Info

521 - 524 HSM2204 1-4 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

106 - Delete HSM2HOST

108 - Delete HSM2955

109 - Delete HSM2300

110 - Delete HSM2204

903 Confirm Modules

000 - View All Modules

101 - Keypads

102 - HSM2108

103 - HSM2208

106 - HSM2HOST

108 - Confirm HSM2955

109 - HSM2300

110 - HSM2204

904 Wireless Placement Test

001-128 - Placement Test Zones

1-128

521-528 - Placement Test

Repeaters 1-28

551-566 - Placement Test Sirens

1-16

601-632 - Placement Test

Wireless Keys 1-32

701-716 - Placement Test

Wireless Keypads 1-16

912 Soak Test

000 - Zone Soak Test Duration

Default: 014

001-128 - Zone Soak Test - Zones

1-128

Battery Settings

982 Battery Settings

000-Panel Battery Settings

01- Panel High Charge

Current (SA ✔)(FRA ✔)

(UK **✓**)

010 - HSM2204 Battery Settings

01 - HSM2204 1 High Charge

Current (SA ✔)(FRA ✔)

(UK 🗸)

02 - HSM2204 2 High Charge

Current (SA ✔)(FRA ✔)

(UK **✓**)

03 - HSM2204 3 High Charge

Current (SA ✔)(FRA ✔)

(UK **✓**)

04 - HSM2204 4 High Charge

Current (SA ✔)(FRA ✔)

(UK **✓**)

020 - HSM2300 Battery Settings

01 - HSM2300 1 Charge

(SA ✔)(FRA ✔)(UK ✔)

02 - HSM2300 2 Charge

(SA ✔)(FRA ✔)(UK ✔)

03 - HSM2300 3 Charge

(SA ✔)(FRA ✔)(UK ✔)

04 - HSM2300 4 Charge

(SA ✔)(FRA ✔)(UK ✔)

Defaults

989 Default Master Code

990 Installer Lockout Enable/Disable

991 Default Keypads

901-916 - Default Keypad 1-16

999 – Default all Keypads

993 Default Alt Comm

996 Default HSM2HOST

998 Default HSM2955

999 Default System

* Wireless keypads only

Zone Record

Zone	Label	Location	Type	Attribute	Zone	Label	Location	Type	Attribute
001	Label	Location	Турс	Attribute	002	Label	Location	Турс	Attribute
003					004				
005									
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063					064				
065					066				
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069					070				
071					072				
073					074				
075					076				
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-									
079					080				
081					082				
083					084				
085					086				
087					088				
089					090				
091					092				
093					094				
095					096				
097					098				

Zone	Label	Location	Type	Attribute	Zone	Label	Location	Type	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.
- 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).



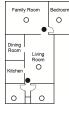




Figure 2

Figure 3

Basement Basement Split LeVel ARRANGEMENT O Smoke detectors for better protection Somoke detectors for better protection Smoke detectors for better protection Somoke detector

Figure 3a

Figure 4

Fire Escape Planning

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.

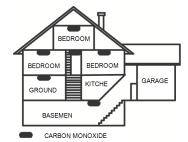


Figure 5

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.

Aux Loading and Battery Selection

HS2128/HS2064/ HS2032/HS2016 Board current draw mA	UL Residential Burg ULC Residential Burg	UL Commercial Burg	UL Resi Fire UL Home Health Care ULC Resi Fire ULC Com Burg	ULC Fire Monitoring	EN50131 Grade 2/Class II
Max AUX (NSC) current loading	0.7A	0.7A	0.5A	0.5A	480mA
Max BELL (Alarm) current loading	0.7A	0.7A	0.7A	0.7A (no local alarm notification allowed, only remote transmission to SRC)	0.7A
UL/ULC Listed enclosure	PC500C PC5003C	CMC-1 PC4050CAR	PC5003C	PC5003C PC4050CR (red/transfomer mounted inside)	PC5003C Power UC1
Transformer requirements	16.5V/40VA (plug in type) PTC1640U (USA) PTC1640CG (CAN)			FTC1637 (cUL listed) 16.5V/37VA (Hardwired type, mounted inside the enclosure or outside using electrical box)	16.5V/40VA (hardwired type, mounted inside the cabinet)
Battery Capacity requirements	7Ah	7Ah	14Ah (2 x 7Ah in parallel)	14Ah (2 x 7Ah in parallel)	7Ah
Standby Time	UL: 4 hours ULC: 24 hours	4 hours	24 hours	24 hours	12 hours
Alarm time	4 minutes	15 minutes	4 min (UL resi fire) 5 min (Home Health Care and ULC Resi Fire)	5 minutes (Alarm Transmission only)	N/A
Recharging current setting	mA, 700mA	mA, 700mA	mA, 700mA	480mA, 700mA	480mA, 700mA

EU Compliance Statement

This Product (HS218/HS2064/HS2032/HS2016) is in Conformity with EMC Directive 2004/108/EC based on results using harmonized

standards in accordance with article 10(5), R&TTE Directive 1999/5/EC based on Following Annex III of the directive and LVD directive 2006/95/EC based on results using Harmonized standards.

This product meets the requirements of Class II, Grade 2 equipment as per EN50131-1: 2006+A1:2009, EN50131-3:2009, EN50131-6:2008 (Type A), EN50136-1-1:1997, EN50136-2-1, EN50136-2-3 (ATS2) Standards.

This device is suitable for use in systems with the following notification options.

A (use of two warning devices and internal dialer required

B (self-powered warning device and internal dialer required

C (use of DSC compatible alternate communicator in back-up or redundant mode)

D (use of DSC compatible alternate communicator with encryption enabled required.)

For EN50131 compliant installations only the intrusion portion of the alarm system has been investigated. Fire Alarm and Auxiliary (Medical) Alarm functions were not included in the evaluation of this product under the requirements of the above mentioned standards.

Additional features implemented for EN 50131 Grade 2:

Fire alarm and CO alarm annunciation

Auxiliary (medical) alarm annunciation

Optional feature implemented for EN 50131 Grade 2:

Removal from mounting tamper detection for non wire-free components

The model HS2128, HS2064, HS2032, HS2016 Control Panel has been certified by Telefication according to EN50131-1:2006 +A1:2009, EN50131-3:2009, EN50131-6:2008 (Type A) and EN50136-1:1997 (ATS2) for Grade 2, Class II.

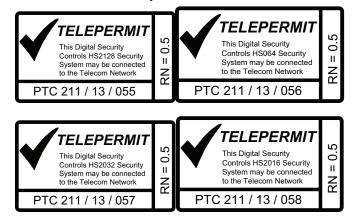


This product is in conformity with: EMC Directive 2004/108/EC based on results using harmonized standards in accordance with article 10(5), R&TTE Directive 1999/5/EC based on following Annex III of the directive and LVD Directive 2006/95/EC based on results using harmonized standards. The product is 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.

Australia Compliance Mark



New Zealand Telepermit Grant



UK Compliance Statement

In the UK this product is suitable for use in systems installed to conform to PD 6662:2010 at Grade 2 and environmental class 2 with the following notification options: A, B, C, D, X

The CIE and notification equipment should be located and supervised to minimize the risk of vandalism or sabotage. It is preferable for the CIE, signaling and network equipment to be located in an area where a confirmed activation will be generated.

HS2128, HS2064, HS2032, HS2016 are compliant with criteria for sequentially confirmed intruder alarm systems as per Standard BS8243:2010.

For an alarm condition to be regarded as sequentially confirmed:

- a) The HS2128, HS2064, HS2032, HS2016 should be configured so that at least two separate alarm conditions are reported, each originating from an independent detector within the confirmation time; Section [042] option 003 (Sequential Detection), section [005]>[000], Burglary Verification Timer set to a value between 30 and 60.
- b) The two detectors should either be of:
- 1) different technologies which are permitted to have overlapping areas of coverage; or
- 2) the same single technology and not have overlapping areas of coverage.

To be regarded as independent, each detector should be configured to report alarm conditions separately to the HS2128, HS2064, HS2032, HS2016.

The HS2128, HS2064, HS2032, HS2016 are capable of supporting the completion of the full setting procedure by one of the following methods:

- a) push button switch mounted outside the supervised premises. Instructions to be provided for the zone type to be programmed for the key arming; or
- b) protective switch (i.e., door contact) fitted to the final exit door of the alarmed premises or area. Use zone type 016 (Final Door Set) for the final exit door.

In this case the setting procedure is a two-stage process of initiating the setting procedure within the supervised premises (e.g., using wireless key PG8929,PG8939, PG8938, PG8949 or user code) followed by completion of setting by one of the two methods described above.

This prohibits the use of a timed exit procedure.

If a protective switch (i.e. door contact) is used as the method of completion of setting, then the keypad should be sited near to the final exit door so that the IAS can be unset promptly. Where appropriate, additional internal audible indications (PG8911 indoor sirens) should be provided so that persons within a building are informed that the HS2128, HS2064, HS2032, HS2016 are due to be set. Additional keypads should be provided, where appropriate, so that if the alarm panel is set there are means available locally within the supervised premises to unset the system.

HS2128, HS2064, HS2032, HS2016 are capable of supporting the following unsetting methods in accordance with BS8243:

6.4.2 Prevention of entry to the supervised premises before the HS2128, HS2064, HS2032, HS2016 are unset. Unsetting using PG8929,PG8938, PG8938, PG8949 wireless key before entering the supervised premises causes or permits the initial entry door to be unlocked. Program PGM1 or PGM2 in Section [009] to activate when system is disarmed and release the mag-lock on the entry door.

Compliance labeling should be removed or adjusted if non-compliant configurations are selected.

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

The complete R&TTE Declaration of Conformity can http://www.dsc.com/listings_index.aspx

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

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

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

(FIN) DSC vakuuttaa laitteen täyttävän direktiivin 1999/5/EC olennaiset vaatimukset. (FRE) Par la présente, DSC déclare que ce dispositif est conforme aux exigence essentielles et autres stipulations pertinentes de la Directive 1999/5/EC.

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

νοπανοτικώ με της απιπικε ποσυστίζευ entspricht. (GRE) Δία του παρόντος, η DSC, δηλώνει ότι αυτή η συσκευή είναι σύμφωνη με τις ουσιώδης απαιτήσεις και με όλες τις άλλες σχετικές αναφορές της Οδηγίας 1999/5/EC. (ITA) Con la presente la Digital Security Controls dichiara che questo prodotto è conforme ai requisiti essenziali ed altre disposizioni rilevanti relative alla Direttiva 1999/05/CE.

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

winge letevanie Navi Tuliekuv 1951.ET.
(POL) DSC oświadcza, że urządzenie jest w zgodności z zasadniczymi wymaganiami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/WE.
(POR) Por este meio, a DSC, declara que este equipamento está em conformidade com. os requisitos essenciais e outras determinações relevantes da Directiva.

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

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

SIA False Alarm Reduction Installations: Quick Reference

Minimum required system consists of one Control unit model HS2128 or HS2064 or HS2032 or HS2016 and any one of the compatible listed keypads: HS2LCDRF9, HS2LCDRFP9, HS2ICNRF9, HS2ICNRFP9, HS2LCD, HS2LCDP, HS2ICN, HS2ICNP, HS2LCD HS2TCHP.

The following wireless keys 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-01-2010 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 3G2080(R)/ TL2803G(R)/ TL280(R) 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.

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.	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 (part no. 29008365).		
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	Access to the reporting codes for walk test start and end times.		
[308][401], options 1 and 2			

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 jurisdictions limit or do not allow the disclaimer of consequential damages. If the laws of such a jurisdiction apply to any claim by or against DSC, the limitations and disclaimers contained here shall be to the greatest extent permitted by law. Some states do not allow the exclusion or limitation of incidental or consequential damages, so that the above may not apply to you.

Disclaimer of Warranties

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

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

Out of Warranty Repairs

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

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

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 hearing-impaired person.

Telephone Lines

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

Insufficient Time

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

Component Failure

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

Inadequate Testing

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

should include all sensing devices, keypads, consoles, alarm indicating devices and any other operational devices that are part of the system.

Security and Insurance

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

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