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HS3032 / HS3128 USER GUIDE



Johnson
Controls 

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

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1.0 Quick Reference













The PowerSeries Pro Alarm System uses shortcut keys to access options or features on all models of keypads. When using an LCD keypad, the PowerSeries Pro Alarm System additionally uses a menu based navigation system. Use the scroll keys to view the list of options contained within the current menu.



For detailed information about the PowerSeries Pro Alarm System, refer to the full online manual, which can be accessed from the DSC website.



















Note: Some features must be enabled by installer.





Note: Bypass Groups are not permitted in UL listed installations.

For SIA CP-01 classified installations, the Swinger Shutdown feature shall shut down the zone after a programmable number of trips (the programmed default is 2). The zone is restored after a manual reset by entering the access code at the time of disarming the alarm system, or it is reset automatically after 48 hours with no trips on any zones.

Status Lights		Function Keys	Emergency Keys
	Ready - Indicates system normal. Must be on to arm system. All zones must be secured or bypassed and the system disarmed for this light to activate.	 Stay Arm	 Fire Alarm
	Armed- Indicates system is armed . If the Ready light and the Armed light are both on, an Exit Delay is in progress.	 Away Arm	 Medical Alarm
	Trouble - On indicates a system malfunction or tamper. Flashing indicates that the keypad has a low battery condition. Follow the instructions displayed or enter [*][2] to view trouble. Correcting the trouble turns off the indicator.	 Chime	 Panic Alarm
	AC Power - Indicates AC Power is present. The AC Power light will turn off when AC is absent.	 Reset	
		 Quick Exit	

Action	Press	Section
Away Arm	 for 2 seconds + [Access Code†]	"Arming the System" on page 9
Stay Arm	 for 2 seconds + [Access Code†]	1.0
Night Arm	When armed in stay mode [*][1] + [Access Code†]	1.0

Action	Press	Section
Disarm	[Access Code]	"Disarming the System" on page 11
No-Entry Arming	[*][9] + [Access Code†]	1.0
Quick Arm /Quick Exit	[*][0]	1.0
Cancel Arming Sequence	[Access Code]	
Bypassing - All bypass commands begin with [*][1] + [Access Code†]		
Bypass Individual Zones	[3 Digit Zone #]	1.0
Bypass All Open Zones	[9][9][8]	1.0
Recall Last Bypass	[9][9][9]	1.0
Clear Bypass	[0][0][0] OR [Scroll] Bypass Options + [*] +   Clear Bypasses + [*]	1.0
Program Bypass Group	[3 digit zone #s] + [9][9][5] OR [3 digit zone #s] +   Bypass Options + [*] +   Prg Bypass Group + [*]	1.0
Load Bypass Group	[9][9][1] OR   Bypass Options + [*] + [Scroll] Bypass Group + [*]	1.0
Common Functions		
Set Time and Date	[*][6] [Master Code] + [0][1]	
Turn Chime ON/OFF	[*][4] + [Access Code†] OR 	1.0
Change Brightness	[*][6] [Master Code] + [1][2] +  	1.0
Change Contrast	[*][6] [Master Code] + [1][3] +  	1.0
Buzzer Volume	[*][6] + [Master Code] + [1][4] +  	1.0
Add/Delete User	[*][5] + [Master Code] + [Access Code] + 1	"Adding, Changing and Deleting Access Codes" on page 14
Reset Smoke Detectors	 OR [*][7][2]	1.0
View Troubles	[*][2] + [Access Code†] +  	"Trouble Conditions" on page 18

Action	Press	Section
View Alarms	[*][3] + [Access Code†] +  	1.0
Perform System Test	[*][6] + [Master Code] + [0][4] +  	1.0

† If configured by the installer.

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2.0 Understanding Your Keypad

The PowerSeries Pro Alarm System supports a variety of wireless and hardwired keypads.

2.1 Keypad Models

Note: In the following list if x = 9 (the system operates in 912-919MHz), x=4 (the system operates in 433MHz band) or x=8 (the system operates in 868MHz band). Only models operating in 912-919MHz band are UL/ULC listed.

HS2LCD	Alphanumeric LCD keypad
HS2LCDP	Alphanumeric LCD keypad with Prox. Tag support
HS2ICN	Icon keypad
HS2ICNP	Icon keypad with Prox. Tag support
HS2LED	LED keypad
HS2LCDRFx	Alphanumeric LCD keypad with wireless receiver
HS2LCDRFPx	Alphanumeric LCD keypad with wireless receiver and Prox. tag support
HS2ICNRFx	Icon keypad with wireless receiver
HS2ICNRF Px	Icon keypad with wireless receiver and Prox. tag support
HS2LCDWFx	Wireless Alphanumeric LCD keypad
HS2LCDWFPx	Wireless Alphanumeric LCD keypad with Prox. Tag support
HS2LCDWFPVx	Wireless Alphanumeric LCD keypad with Prox. Tag support & Voice Prompt
HS2TCHP	Touchscreen keypad. For additional information refer to the HS2TCHP Touchscreen User Manual.

Note: For systems compliant with EN50131-1 and EN50131-3 the HS2LED keypad shall be used in conjunction with an LCD type keypad (HS2LCD(P) or HS2LCDRF(P)8 or HS2LCDWF(P)8 in order to review logged events and also to allow overriding of conditions that inhibit setting the alarm system. The HS2LED keypad alone cannot support these functions.

2.2 Applicable Models

This publication covers the following models: x = 9 (912-919MHz UL/ULC systems), 4 (433MHz) or 8 (868MHz).

HS3032	HS2LCDRFPx
HS3128	HS2LCDWFx
HS2LCD(P)	HS2LCDWFPx
HS2LCDRFx	HS2LCDWFPVx

3.0 The PowerSeries Pro Security System

The PowerSeries Pro has been designed to provide the greatest possible flexibility and convenience. Read this manual carefully and have the installer provide instructions on how to operate the system and which features have been implemented. All users of this system should be equally instructed in its use.

Fill out the "System Information" section with zone information and access codes and store this manual in a safe place for future reference.

Note: The PowerSeries Pro security system includes specific false alarm reduction features and is classified in accordance with ANSI/ SIA CP-01-2014 Control Panel Standard - Features for False Alarm Reduction. Please consult the installer for further information regarding false alarm reduction features built into the system as all are not covered in this manual.

3.1 General System Operation

This security system is made up of a PowerSeries Pro control panel, one or more keypads and various sensors and detectors. The metal cabinet contains the system electronics, and standby battery. All the LCD keypads have an alphanumeric liquid crystal display. The keypad is used to send commands to the system and to display the current system status. The keypad(s) will be mounted in a convenient location inside the protected premises close to the entry/exit door(s). The security system has several zones of area protection and each of these zones is connected to one or more sensors (motion detectors, glassbreak detectors, door contacts, etc.).

Note: Only the installer or service professional shall have access to the control panel.

3.2 Testing the System

Tests all system keypad LEDs, keypad sounders, bells and/or sirens. To ensure the system continues to function as intended, test your system weekly.

IMPORTANT: For UL HOME HEALTH CARE listed applications the system shall also be tested weekly without AC power. To remove AC from the control unit, remove the screw from the restraining tab of the plug in adapter and remove the adapter from AC outlet. After completing the test of the unit using only the battery backup source, reconnect the plug in adapter and attach the screw through the restraining tab so that the adapter is securely attached to the outlet.

IMPORTANT: Should the system fail to function properly contact the installation company.

IMPORTANT: All smoke detectors must be tested by the smoke detector installer once per year.

To Perform a Keypad and Siren Test

1. Press [*][6] and enter the [Master Code] to access User Functions.
2. Press [04] or use the scroll keys to navigate to System Test and press [*]. The system activates all keypad sounders, bells/sirens and keypad LEDs for two seconds.
3. Press [#] to return to the Ready state.

LCD Display

Press (*) for <> User Functions

Press (*) for <> System Test

3.3 Monitoring

This system is capable of transmitting alarms, troubles and emergency information. If an alarm is initiated by mistake, immediately call the central station to prevent an unnecessary response.

Note: For CP-01 systems, the monitoring function must be enabled by the installer before it is operational. There is a communicator delay of 30 seconds in this control panel. It can be removed, or it can be increased up to 45 seconds, at the option of the end-user by consulting with the installer. Fire type alarms are normally reported without a delay.

3.4 Maintenance

With normal use, the system requires minimum maintenance. Note the following points:

- Use the system test described in “Testing the System” to check the battery condition. We recommend, however, that the standby batteries be replaced every 3-5 years.
- For other system devices such as smoke detectors, passive infrared, ultrasonic or microwave motion detectors or glassbreak detectors, consult the manufacturer’s literature for testing and maintenance instructions.
- Do not clean the security equipment with a wet cloth. Light dusting with a slightly moistened cloth should remove normal accumulation of dust.

Note: Do not use abrasives, thinners, solvents or aerosol cleaners (spray polish) that may enter through holes in the Alarm Controller and cause damage. Do not wipe the front cover with alcohol.

Note: Do not use any water or any other liquid.

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4.0 Arming the System

The PowerSeries Pro system can be armed using a keypad, 2-way wireless key or a proximity tag.
Note: If your system is installed in accordance with SIA CP-01 Standard for False Alarm Reduction, the security system arms in Stay Arm mode if the exit delay time expires and there is no exit.

4.1 Away Arming the System with the Keypad

Away mode activates the complete alarm system by:

- Arming all perimeter sensors.
- Arming all interior sensors.

To Arm the System in Away Mode

1. Ensure all windows and doors are closed and that the Ready indicator is on.
2. To arm using the Away key, press and hold the Away key for 2 seconds and, if required, enter your access code or present a proximity tag.

LCD Display

Date Time JAN 02/18 2:06a



System is Ready to Arm

then

OR

To Quick Arm the system press [*][0].

Present Tag or Enter Code

3. If zones have been bypassed a warning is displayed on the keypad.
4. After successfully initiating the arming sequence the:
 - Armed  indicator turns on.
 - Ready  indicator remains lit.
 - Exit Delay timer begins counting down.
 - Keypad beeps six times, continues beeping once per second until beeping rapidly in the final ten seconds.
5. To cancel the arming sequence, enter your access code or present a proximity tag to the keypad reader.
6. Once the exit delay timer expires, the system is armed :
 - Ready indicator turns off.
 - Armed indicator remains on.
 - Keypad stops sounding.

System Disarmed No Alarm Memory

System Armed in Away Mode

Note: The installer configures the exit delay timer and whether or not an access code is required for arming the system.

4.1.1 Exit Delay Time Restart

The control panel provides an option where, if a entry/exit zone is tripped a second time prior to the end of the exit delay, the exit delay time restarts. The exit delay timer can only be restarted once.

4.1.2 Alarm Cancel Window

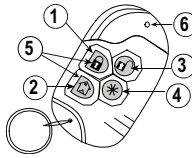
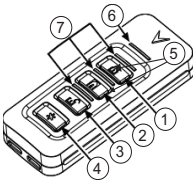
The control panel provides a period of time in which the user can cancel the alarm transmission (the minimum duration is 5 minutes). If the programmed alarm transmission delay has expired, canceling an alarm sends a message to the monitoring station. Upon a successful transmission of the cancellation message, the keypad will beep 6 times.

Note: Must be enabled and configured by installer.

Note: For CP-01 systems, alarm transmission delay must not exceed 45 seconds.

4.2 Using 2-way Wireless Keys and Proximity Tags

The 2-way wireless key allows users the ability to readily arm/disarm their system, and to call for help. For information on enrolling wireless keys see "User Labels (LCD keypads only)".



1. Away Arm
2. Stay Arm
3. Disarm
4. Panic
5. Command Output 1
6. Message LED
7. Status LEDs

1. Away Arm
2. Stay Arm
3. Disarm
4. Panic
5. Command Output 1
6. LED

Note: The Panic feature has not been evaluated by UL. All wireless key buttons are programmable. Verify the functions assigned to each key with your installer. When using compatible wireless keys there is one bell squawk for arming and two bell squawks for disarming.

4.3 Arming the System with a 2-Way Wireless Key

If configured, the PowerSeries Pro system can be armed using the wireless keys provided with your alarm system.

To Arm the system with a 2-way wireless key, press the desired Arming mode button when the system Ready indicator is on.

4.4 Arming the System with a Proximity Tag

Proximity tags can be used to arm/disarm the system or to perform a programmed function (e.g. used in place of entering an access code or to unlock a storage room door).

To Arm the system with a proximity tag

- Present your proximity tag to a keypad with a proximity sensor when the system Ready indicator is on.
- If configured by your installer, enter your access code.

Note: When arming with a proximity tag, the system arms in Away mode if you exit the premises. The system arms in Stay mode if a motion sensor is installed and you don't exit the premises.


4.5 Disarming the System

Depending on your system configuration, there are multiple methods you can use to disarm your system. You can disarm the system using a keypad, 2-way wireless key or a proximity tag:

4.5.1 To Disarm the System with a Keypad


1. Enter your access code or present your proximity tag when the system is armed (Armed indicator is on).
2. If you walk through the entry door, the keypad will beep. Disarm within ____ seconds to avoid an alarm condition.

4.5.2 Disarm the System with a 2-way Wireless Key

1. Press the disarm button when the system is armed (Armed  indicator is on).
2. If you walk through the entry door the keypad will beep. Press the disarm button within ____ seconds to avoid an alarm condition.

Note: After disarming a system with an HS2LCD keypad using a 2-way wireless key, always check the alarm memory to determine if any alarms have occurred during the armed period.

4.5.3 Disarm the System with a Proximity Tag

1. Present your proximity tag to a keypad equipped with a proximity sensor when the system is armed (Armed  indicator is on) and if configured as required, enter your access code.
2. If you walk through the entry door the keypad will start beeping. Present your proximity tag within ____ seconds to avoid an alarm condition.

Note: The Duration of Entry timer is programmed by your installer. The installer will advise the duration of the entry delay programmed (valid entries are 30 seconds to 4 minutes). For SIA CP-01 classified installations the entry delay must not exceed 45 seconds.

4.5.4 Disarming Error

If your code is invalid, the system will not disarm and a 2-second error tone will sound. If this occurs, press [#] and re-enter your access code.

5.0 Emergency Keys

IMPORTANT: EMERGENCY USE ONLY!

Pressing both the emergency keys generates a Fire, Medical, or Panic Alarm, and alerts the monitoring station. For example, to generate a medical alarm, press both of the medical alarm keys simultaneously for 2 seconds. The keypad beeps to indicate the alarm input has been accepted and sent to the monitoring station.



Fire Alarm



Medical Alarm



Panic Alarm

Note: Verify with your alarm company that your system is equipped with emergency keys.

Note: Fire keys can be disabled by the installer.

Note: Having an optional audio verification module installed on your system allows the monitoring station to open 2-way communication when notified of an alarm.

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6.0 Access Code Types

The alarm system provides the following user access code types:

Code	Add User	Delete User	Arm	Disarm	Access Codes	User Functions	Installer
Master	All	All	Yes	Yes	Yes	Yes	No
User	No	No	Yes	Yes	No	No	No
Supervisor	All but Master	All but Master	Yes	Yes	Yes	Yes	No
Duress	No	No	Yes	Yes	No	No	No
One-time user	No	No	Yes	1/day	No	No	No

Installer and Master codes are system codes that can be changed but not deleted. The other codes are user-defined and can be added or deleted as necessary. By default, access codes have the same partition and attribute programming as the code used to program them.

Note: When using 8-digit access codes, the minimum number of variations are:

- 1388888 for HS3032
- 100000 for HS3128

There are no disallowed codes.

Master Code By default the master code can access all partitions and can perform any keypad function. This code can be used to program all access codes, including the supervisor and duress codes. The master code # is [01].

User Codes This type of access code is used to arm and disarm assigned partitions and can access the User Functions menu.

Supervisor Codes Use when you want to allow additional users to manage Access Codes [*5] or User Functions [*6]. Supervisor codes created by the master code will have the same attributes as the master code. Supervisor codes created by another supervisor code will have the same attributes, except the supervisor attribute. After creation, attributes can be changed for all supervisor codes. For information on how to program a supervisor code see "Configuring additional User Options".

Duress Codes A Duress Code is used if forced to access your keypad under threat. Duress codes function the same as user access codes, except they transmit a Duress Report to your monitoring station when used to perform any function on the system. Duress codes cannot be used to access Access Codes [*5], User Functions [*6] or Installer [*8] menus. For information on how to program a Duress Code see "Configuring additional User Options".

One Time User Code Used to grant someone one-time access to your home or once per day, i.e., a cleaning person or contractor. The ability to disarm the system is reset at midnight or when the one-time user code is keyed in by the master code user. For information on how to program a One Time User Code see "Configuring Additional User Options".

To Open the Access Codes Menu**LCD Display**

1. Press [*][5]

OR

press [*] and use the scroll keys to navigate to Access Codes and press [*] to select.

2. Enter Master or Supervisor code.
3. Enter User #

or

scroll through the list of users and press [*].

4. To go back to the Ready state press [#].

```
Press (*) for <>
Access Codes
```

```
Press (*) for <>
{User Label}
```

6.1 Adding, Changing and Deleting Access Codes

Each configured user is assigned a number as follows:

- 01-72 for HS3032
- 01-1000 for HS3128

A “-” beside a user ID indicates it is not programmed.

To Add or Change User Access Codes**LCD Display**

1. From the desired user press [*].
2. Enter a new 4, 6, or 8-digit access code. After entering a new code you will be automatically returned to the previous menu, the display indication is changed to “P” from “-”. If a duplicate code is entered an error tone will sound. After the code is programmed, the keypad returns to the previous LCD display.

```
Press (*) for < >
Access Code
```

```
Enter New Code
AAAA
```

To Delete a User Access Code**LCD Display**

1. From the desired user press [*].
2. Press [*]. The code is deleted, and you are returned to the previous screen. The flag is changed to “-” from “P”. After the code is programmed, the keypad returns to the previous LCD display.

```
Press (*) for <>
Access Code
```

```
Enter New Code
030516
```

Note: Any proximity tags associated with deleted user codes will need to be re-enrolled.

6.2 Burglary Verification

The PowerSeries Pro system includes cross zone and sequential detection features that require an activation on two or more zones, within a given time period, to generate a confirmed alarm and immediate police response.

Note: Must be enabled and configured by installer.

6.3 Swinger Shutdown

The Control Panel has a swinger shutdown feature that, when enabled, a programmable number of trips will shut down the zone. All burglary zone types have this feature enabled in CP-01

installations.

Note: Must be enabled and configured by installer.

6.4 Call Waiting

The PowerSeries Pro system includes a programmable option for call waiting to prevent a call waiting line from interfering with the alarm verification process. This option is disabled by default.

Note: Must be enabled and configured by installer.

6.5 Fire Alarm Verification

Fire Alarm Verification is an available option for Fire zones. If configured, once the conditions for alarm verification are met the fire alarm will sound and an alarm transmission will be sent to the monitoring station.

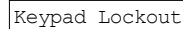
Note: Must be enabled and configured by installer.

6.6 System Lockout Due To Invalid Attempts

If too many invalid access codes are entered, your system can be configured to automatically lock-out input from all keypads, wireless keys and proximity tags for a programmed duration. Wait the programmed duration then try again.

When the system is locked out the following message is displayed.

LCD Display



Keypad Lockout

Note: Fire, Medical and Panic keys are still active during a System Lockout.

Note: This feature and lockout duration must be configured by your installer.

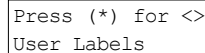
6.7 User Labels (LCD keypads only)

Adding or editing labels is done by using a pre-programmed word library. The table library lists the full library and the associated three digit code.

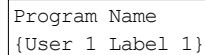
To Edit a User Label

1. From the applicable user, press [3] or use the scroll keys to scroll to User Labels and press [*].
2. Press [*] [*] to enter word library.
3. Use the scroll keys to scroll through the list of words or use the 3-digit number to display the desired word. Press [*] to select the word.
4. To enter an additional word, repeat step 3.

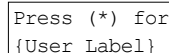
LCD Display



Press (*) for <>
User Labels



Program Name
{User 1 Label 1}



Press (*) for
{User Label}

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

Word Library											
035	Central	075	Fire	115	Low	155	RF	195	1	235	#
036	Chime	076	First	116	Lower	156	Right	196	2	236	:
037	Closed	077	Floor	117	Main	157	Room	197	3	237	/
038	Closet	078	Force	118	Master	158	Safe	198	4	238	?
039	Closing	079	Foyer	119	Mat	159	Saver	199	5	239	
040	Code	080	Freeze	120	Medical	160	Schedule	200	6	240	

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7.0 Trouble Conditions

When a trouble condition occurs your Alarm System identifies the problem and displays an error message. Refer to the table below when you see an error message on the display. If additional help is required, contact your distributor for service.

When the system detects a trouble condition the following occurs:

- The Trouble indicator turns on.
- The keypad beeps once every 10 seconds.
- Press the [*] key to silence the keypad beeps.

Press [*][2] to examine troubles. When viewing troubles, the trouble indicator flashes to identify the level of trouble being viewed. One flash = level 1, two flashes = level 2 etc.

Arming of your system may be impeded by a trouble. To override this condition, enter [*][2], scroll to Acknowledge All Troubles and press [*] or enter 999.

Trouble Condition	Trouble Level 1	Description	Trouble Types	Trouble Level 2	Notification Level 3
Trouble numbers are used to view the trouble. Trouble Notification identifies the range that may be displayed on the keypad. When exploring the trouble levels, the Trouble indicator will flash to identify which level you are currently viewing.					
Service Required	01	Assorted Trouble types. Time and Date troubles can be resolved by resetting the Time/Date. To set Time/Date press [*][6][0][1]. For all other troubles call for service.	Bell Circuit	01	
			RF Jam	02	
			Loss of clock	04	
			Output 1 Fault	05	
			Warm Start		
			USB Wi-Fi Connected		
			Power Unit Fail System		
			Power Fail Bus Repeater		Repeater 1-8
			Power Fail 3A Supply		Power Supply 1-4
			Overcurrent		Call for service

Trouble Condition	Trouble Level 1	Description	Trouble Types	Trouble Level 2	Notification Level 3
Battery Trouble	02	The system has detected a battery trouble condition. Call for service.	Low Battery	01	n/a
			No Battery	02	n/a
			Low Battery High-current O/P	04	Module 1-4
			No Battery High-current O/P	05	Module 1-4
			Low Battery 1A Power Supply	07	Module 1-4
			No Battery 1A Power Supply	08	Power supply 1-4
			Low Battery Bus Repeater	10	Repeater 1-8
			No Battery Bus Repeater	11	Repeater 1-8
			Low Battery 1 3A Power Supply	13	Power Supply 1-4
			Low Battery 2 3A Power Supply	14	Power Supply 1-4
			No Battery 1 3A Power Supply	15	Power Supply 1-4
			No Battery 2 3A Power Supply	16	Power Supply 1-4

Trouble Condition	Trouble Level 1	Description	Trouble Types	Trouble Level 2	Notification Level 3
Bus Voltage	03	A module has detected a low voltage on its Corbus red terminal.	HSM2HOST	01	n/a
			Keypad	02	Keypad 1-16
			Zone Expander	04	Zone expander 1-15
			1A Power Supply	05	Power Module 1-4
			High-current Output	06	Output Module 1-4
			System Area	07	n/a
			Output Expander	08	Module 1-16
			Audio Module	09	n/a
			8 I/O Module	10	Module 1-16
			Bus Repeater	11	Repeater 1-8
			Bus Fault Bus Repeater	12	Repeater 1-8
AC Troubles	04	The system is experiencing loss of power. Call for service. If the building and/or neighbourhood has lost electrical power, the system will continue to operate on battery for several hours.	Zone	01	Zone label or 001-128
			Keypad	02	Keypad 1-16
			Siren	03	Siren 1-16
			Repeater	04	Repeater 1-8
			Power Supply	05	Power supply 1-4
			High-current Output	06	Output terminal 1-4
			System Area	07	n/a
			Bus Repeater	08	Repeater 1-8
			3A Power Supply	09	Power Supply 1-4

Trouble Condition	Trouble Level 1	Description	Trouble Types	Trouble Level 2	Notification Level 3
Device Faults	05	The system has detected an issue with one or more connected devices. Call for service.	Zone	01	Zone label or 001-128
			Keypad	02	Keypad 1-16
			Siren	03	Siren 1-16
			Repeater	04	Repeater 1-8
			Device Mask	06	Zone 001-128
			Gas	07	Zone 001-128
			Heat	08	Zone 001-128
			CO	09	Zone 001-128
			Freeze	10	Zone 001-128
			Probe Disconnected	11	Zone 001-128
			Fire	12	Zone 001-256
Device Battery	06	The system has detected an issue with one or more of the device batteries. For zone, keypad and wireless key battery troubles see the accompanying documentation for how to change the batteries.	Zone	01	Zone label or 001-128
			Keypad	02	Keypad 1-16
			Siren	03	Siren 1-16
			Repeater	04	Repeater 1-8
			User	05	Wireless key 1-32
Device Tamperers	07	The system has detected a tamper condition with one or more devices on the system. Call for service.	Zone	01	Zone label or 001-128
			Keypad	02	Keypad 1-16
			Siren	03	Siren 1-16
			Repeater	04	Repeater 1-8
			Audio Station	05	Station 1-4
RF Delinquency	08	The system has detected wireless signal interference that is causing improper system operation. Call for service.	Zones	01	Zone label or 001-128
			Keypad	02	Keypad 1-16
			Siren	03	Siren 1-16
			Repeater	04	Repeater 1-8

Trouble Condition	Trouble Level 1	Description	Trouble Types	Trouble Level 2	Notification Level 3
Module Supervision	09	The system has detected a supervisory trouble condition with one or more modules on the system. Call for service.	HSM2HOST	01	n/a
			Keypad	02	Keypad 1-16
			Zone Expander	04	Expander 1-15
			Power Supply	05	Power Supply 1-4
			High-current Output	06	Output terminal 1-4
			Output Expander	08	Output module 1-16
			Audio Module	09	
			I/O Module	10	Module 1-15
			Bus Repeater	11	Repeater 1-8
			3A Supply	12	Power Supply 1-4
Module Tamperers	10	The system has detected a tamper condition with one or more modules on the system. Call for service.	HSM2HOST	01	n/a
			Keypad	02	Keypad 1-16
			Zone Expander	04	Zone Expander 1-15
			Power Supply	05	Power Supply 1-4
			High-current Output	06	Output terminal 1-4
			Output Expander	08	Output module 1-16
			Audio Module	09	n/a
			I/O Module	10	Module 1-15
			Bus Repeater	11	Repeater 1-8
			3A Power Supply	12	Power Supply 1-4

Trouble Condition	Trouble Level 1	Description	Trouble Types	Trouble Level 2	Notification Level 3
Communications	11	The system has detected a communication trouble. Call for service.	TLM	01	n/a
			FTC	02	Receiver 1-4
			SIM Lock	03	n/a
			Cellular	04	n/a
			Ethernet	05	n/a
			Receiver	06	Receiver 1-4
			Supervision Receiver	07	Receiver 1-4
			Alt Comm Fault	09	n/a
			Alt Comm FTC	10	Receiver 1-4
Not Networked	12	The system has detected a network trouble condition with one or more modules on the system. If the trouble does not restore within 20 minutes, call for service.	Zone	01	Zone label 001-128
			Keypad	02	Keypad 1-16
			Siren	03	Siren 1-16
			Repeater	04	Repeater 1-8
			User	05	Users 01-1000
AUX Trouble	13	The system has detected a trouble on the AUX terminal.	Zone	01	Zone
			Power Supply	05	Power Supply 1-8
			High-current O/P	06	Module 1-4
			System Area	07	n/a
			8 I/O Module	10	Module 1-15
			Bus Repeater	11	Repeater 1-8
			3A Power Supply Aux 1	12	Aux 1 Trouble
			3A Power Supply Aux 2	13	Aux 2 Trouble

8.0 Regular Maintenance and Troubleshooting

Keep your alarm controller in optimal condition by following all the instructions that are included within this manual and/or marked on the product. It is the end-user and/or installer's responsibility to ensure that the disposal of the used batteries is made according to the waste recovery and recycling regulations applicable to the intended market.

8.1 Cleaning and Maintenance

- Clean the unit by wiping with a damp cloth.
- Do not wipe the front cover with alcohol.
- Do not use any water or any other liquid.
- Do not use abrasives, thinners, solvents or aerosol cleaners (spray polish) that may enter through holes in the Alarm Controller and cause damage.
- Use the system test described in "Testing Your System" to check the battery condition. We recommend, however, that the standby batteries be replaced every 3-5 years.
- For other system devices such as smoke detectors, passive infrared, ultrasonic or microwave motion detectors or glassbreak detectors, consult the manufacturer's literature for testing and maintenance instructions.

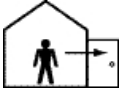
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10.0 Reference Sheets

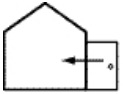
Fill out the following information for future reference and store this guide in a safe place.

10.1 System Information

- [F] FIRE
- [M] MEDICAL
- [P] PANIC



The Exit Delay Time is _____ seconds.



The Entry Delay Time is _____ seconds.

10.2 Service Contact Information

Central Station Information

Account #: _____ Telephone #: _____

Installer Information:

Company: _____ Telephone #: _____

Battery Installation / Service Date:

IMPORTANT: If you suspect a false alarm signal has been sent to the central monitoring station, call the station to avoid an unnecessary response.

11.0 Safety Instructions

North America

This equipment is cord connected, pluggable Type A, stationary with a non-detachable power supply cord and must be installed by skilled persons only (persons who have training or experience in the equipment technology, particularly in knowing the various energies and energy magnitudes used in the equipment). It must be installed and used within an environment that has maximum pollution degree of 2, over-voltages category II, in non-hazardous, indoor locations only.

WARNING! This equipment has no mains on/off switch; if the equipment must be quickly disconnected, the plug of the power supply cord serves as a means of disconnection; it is imperative that access to the mains plug and associated mains socket/outlet is never obstructed.

International (EU, Australia, New Zealand)

This equipment is stationary-fixed and must be installed by Skilled Person only (Skilled Person is defined as a person with relevant education or experience to enable him or her to identify hazards and to take appropriate actions to reduce the risks of injury to themselves and others). It must be installed and used within an environment that provides the pollution degree max 2, over voltages category II, in non-hazardous, indoor locations only.

WARNING! 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 open or service this product. Opening or removing the cover may expose you to dangerous voltage or other risks. Servicing must be done by skilled persons only.
- Use only authorized accessories with this equipment.
- Do not leave and/or deposit any object on the top of the cabinet of this equipment. The cabinet is not designed to support any supplementary weight.
- 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.
- This equipment contains no user-serviceable parts, except for the keypad batteries.
- Dispose of used batteries as per local rules and regulations.

These safety instructions should not prevent you from contacting the distributor and/or the manufacturer to obtain any further clarification and/or answers to any concerns.

12.0 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.

12.1 Smoke Detectors

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

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

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

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

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

1. In all sleeping rooms and guest rooms.
2. Outside of each separate dwelling unit sleeping area, within 6.4 m (21 ft) of any door to a sleeping room, the distance measured along a path of travel.
3. On every level of a dwelling unit, including basements.
4. 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).

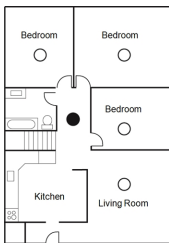


Figure 1

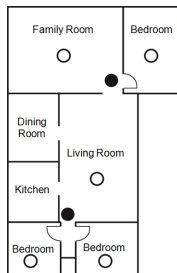


Figure 2

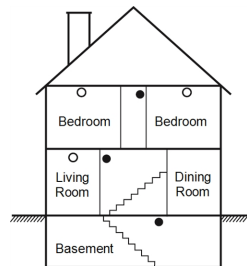


Figure 3

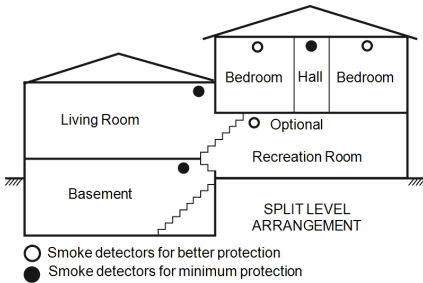


Figure 3a

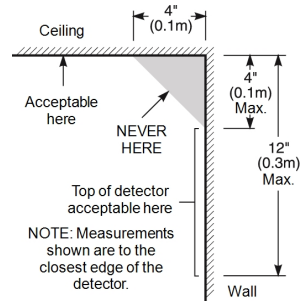


Figure 4

12.2 Fire Escape Planning

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

- 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.
- 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.

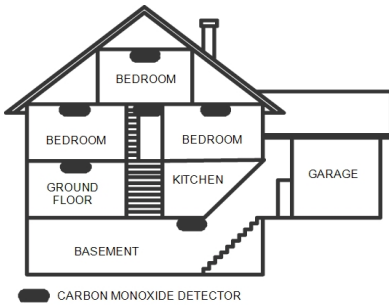


Figure 5

12.3 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
- Do not place 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.

13.0 Regulatory Agency Statements

FCC COMPLIANCE STATEMENT

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

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or experienced radio/television technician for help.

The user may find the following booklet prepared by the FCC useful: 'How to Identify and Resolve Radio/Television Interference Problems'. This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402, Stock # 004-000-00345-4.

The keypads represented in this manual can be used with the following Control Units: HS3032, HS3128.

IMPORTANT INFORMATION

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

HS3032 Product Identifier US:F53AL01AHS3256

HS3128 Product Identifier US:F53AL01AHS3256

USOC Jack: RJ-31X

Telephone Connection Requirements

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

Ringer Equivalence Number (REN)

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a telephone line may result in the devices not ringing in response to an incoming call. In most but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local Telephone Company. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format US: AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

Incidence of Harm

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

Changes in Telephone Company Equipment or Facilities

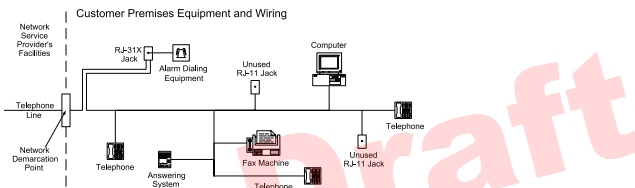
The Telephone Company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the Telephone Company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

Equipment Maintenance Facility

If trouble is experienced with this equipment for repair or warranty information, contact the facility indicated below. If the equipment is causing harm to the telephone network, the Telephone Company may request that you disconnect the equipment until the problem is solved. This equipment is of a type that is not intended to be repaired by the end user. Tyco Atlanta Distribution Center, 2600 West Pointe Dr., Lithia Springs, GA 30122

Additional Information

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information. Alarm dialing equipment must be able to seize the telephone line and place a call in an emergency situation. It must be able to do this even if other equipment (telephone, answering system, computer modem, etc.) already has the telephone line in use. To do so, alarm dialing equipment must be connected to a properly installed RJ-31X jack that is electrically in series with and ahead of all other equipment attached to the same telephone line. Proper installation is depicted in the figure below. If you have any questions concerning these instructions, you should consult your telephone company or a qualified installer about installing the RJ-31X jack and alarm dialing equipment for you.



INNOVATION, SCIENCE & ECONOMIC DEVELOPMENT CANADA (ISED CANADA)

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

The Ringer Equivalence Number (REN) for this terminal equipment is 0.1. The REN assigned to each terminal equipment provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all devices does not exceed 5.

HS3032 Registration number IC:160A-HS3256

HS3128 Registration number IC:160A-HS3256

FCC AND ISED CANADA FOR WIRELESS KEYPADS

WARNING! To comply with FCC and ISED Canada RF exposure compliance requirements, the HS2LCDRF(P)9 or HS2LCDWF(P)9 keypads should be located at a distance of at least 20 cm from all persons during normal operation. The antennas used for this product must not be co-located or operated in conjunction with any other antenna or transmitter. This device complies with FCC Rules Part 15 and with ISED Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may be received or that may cause undesired operation.

ISED:160A – HS2KRFP9

Models: HS2LCDRF9, HS2LCDRFP9, HS2LCDWF9, HS2LCDWFP9 (operating in 912-919MHz band) are compliant with applicable FCC Part 15.247 and IC RSS-210 rules.

The term "ISED" before the radio certification number only signifies that ISED Canada technical specifications were met.

AVERTISSEMENT! Pour répondre aux exigences de conformité de la FCC et ISDE Canada sur les limites d'exposition aux radiofréquences (RF), les claviers HS2LCDRF(P)9 ou HS2LCDWF(P)9 doivent être installés à une distance minimale de 20 cm de toute personne lors de leur fonctionnement usuel. Ces derniers ne doivent pas être situés au même endroit, ni être en fonction avec une autre antenne ou un autre transmetteur. Le présent appareil est conforme aux CNR ISDE Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

EN Compliance

This product meets the requirements of Class II, Grade 3 equipment as per EN 50131-1:2006 + A1:2009 + A2:2017 Standard. This product is suitable for use in systems with the following notification options:

- A (use of two remotely powered warning devices and single path SP3 internal dialer or Ethernet path or plug-in cellular module required),
- B (self powered warning device (wireless siren) and single path SP3 internal dialer or Ethernet path or plug-in cellular module required),
- C (dual path DP2 internal dialer and alternate Ethernet or plug-in cellular communicator required)
- D (single path SP4 internal Ethernet path or plug-in cellular communicator with encryption enabled required)
- E (dual path DP3 internal Ethernet path and plug-in cellular communicator required)

The Model HS3032, HS3128 Control Panel has been certified by Telefication according to EN50131-1:2006 + A1:2009 + A2:2017, EN50131-3:2009 Type B, EN50131-6:2017 Type A, EN50131-10:2014 and EN50136-2:2013 for Grade 3, Class II, ATS Configurations SP3 (phone line path only), SP4 (Ethernet or cellular path only), DP2 (dual path with phone line primary path and Ethernet or Cellular secondary path) and DP3 (dual path with Ethernet or Cell primary path and Cellular or Ethernet as secondary path).

EUROPEAN CE COMPLIANCE STATEMENT

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

SIMPLIFIED EU DECLARATION OF CONFORMITY

Hereby, Tyco Safety Products Canada Ltd declares that the radio equipment type is in compliance with Directive 2014/53/EU. The full text of the EU declarations of conformity for the models mentioned below are available at the following internet addresses:

HS2LCDRF(P)(V)4: <http://dsc.com/pdf/1401057>

HS2LCDRF(P)(V)8: <http://dsc.com/pdf/1401058>

HS2LCDWF(P)(V)4: <http://dsc.com/pdf/1401061>

HS2LCDWF(P)(V)8: <http://dsc.com/pdf/1401062>

Frequency Band / Maximum Power

g1 433.04MHz – 434.79MHz/10mW

h1.4 868.0MHz – 868.6MHz/10mW

h1.5 868.7MHz – 869.2MHz/10mW

a3 119MHz – 135MHz – 66 dBµA/m @10m

European single point of contact: Tyco Safety Products, Voltaweg 20, 6101 XK Echt, Netherlands

GENERAL WARNING

The following is a list of warnings applicable when this equipment is connected to the New Zealand Telecom Network. The grant of a Telepermit for any item of terminal equipment indicates only that Telecom has

accepted that the item complies with minimum conditions for connection to its network. It indicates no endorsement of the product by Telecom, nor does it provide any sort of warranty. Above all, it provides no assurance that any item will work correctly in all respects with another item of Telepermitted equipment of a different make or model, nor does it imply that any product is compatible with all of Telecom's network services.

Reverse Numbering (Decadic Signalling)

Decadic signaling should not be used as it is being progressively phased out of the network. DTMF dialing is 100% available and it should always be used.

Line Grabbing Equipment

This equipment is set up to carry out test calls at pre-determined times. Such test calls will interrupt any other calls that may be set up on the line at the same time. The timing set for such test calls should be discussed with the installer. The timing set for test calls from this equipment may be subject to 'drift'. If this proves to be inconvenient and your calls are interrupted, then the problem of timing should be discussed with the equipment installer. The matter should NOT be reported as a fault to Telecom Faults Service.

D.C. Line Feed To Other Devices

During dialing, this device unit does not provide DC voltage to the series port connection and this may cause loss of memory functions for the terminal devices (local telephone) connected to T-1, R-1.

General Operation (ringer sensitivity and loading)

This device only responds to Distinctive Alert cadences DA1 and DA2.

In the event of any problem with this device, it is to be disconnected. A CPE item connected to one of the device's terminal ports may be connected directly in its place. The user should then arrange for the product to be repaired. Should the matter be reported to Telecom as a wiring fault, and the fault is proven to be due to this product, a call-out charge will be incurred.

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14.0 Installer Warning

Warning Please Read Carefully

Note To Installers:

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

System Failures

This system has been carefully designed to be as effective as possible. There are circumstances, however, involving fire, burglary, or other types of emergencies where it may not provide protection. Any alarm system of any type may be compromised deliberately or it 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, and ceilings and other building materials must be of sufficient strength and construction to provide the level of protection expected. A reevaluation must be done during and after any construction activity. An evaluation by the fire and/or police department is highly recommended if this service is available.

Criminal Knowledge

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

Access by Intruders

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

Power Failure

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

Failure of Replaceable Batteries

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

Compromise of Radio Frequency (Wireless)

Devices

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

System Users

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

Smoke Detectors

Smoke detectors that are a part of this system may not properly alert occupants of a fire for a number of reasons, some of which follow. The smoke detectors may have been improperly installed or positioned. Smoke may not be able to reach the smoke detectors, such as when the fire is in a chimney, walls or roofs, or on the other side of closed doors. Smoke detectors may not detect smoke from fires on another level of the residence or building. Every fire is different in the amount of smoke produced and the rate of burning. Smoke detectors cannot sense all types of fires equally well. Smoke detectors may not provide timely warning of fires caused by carelessness or safety

hazards such as smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches or arson.

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

Motion Detectors

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

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

Warning Devices

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

Telephone Lines

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

Insufficient Time

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

Component Failure

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

Inadequate Testing

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

Security and Insurance

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

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