

# HLX-40/40A/40B

## Advanced Wireless Security Panel

### Hardware Installation and Programming Manual



**ROSSLARE**  
SECURITY PRODUCTS

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# Notice and Disclaimer

This manual's sole purpose is to assist installers and/or users in the safe and efficient installation and usage of the system and/or product, and/or software described herein.

**Before attempting to install and/or use the system, the installer and the user must read this manual and become familiar with all safety requirements and operating procedures.**

- The system must not be used for purposes other than those for which it was designed.
- The use of the software associated with the system and/or product, if applicable, is subject to the terms of the license provided as part of the purchase documents.
- ROSSLARE ENTERPRISES LIMITED and/or its related companies and/or subsidiaries' (hereafter: "ROSSLARE") exclusive warranty and liability is limited to the warranty and liability statement provided in an appendix at the end of this document.
- This manual describes the maximum configuration of the system with the maximum number of functions, including future options. Therefore, not all functions described in this manual may be available in the specific system and/or product configuration you purchased.
- Incorrect operation or installation, or failure of the user to effectively maintain the system, relieves the manufacturer (and seller) from all or any responsibility for consequent noncompliance, damage, or injury.
- The text, images and graphics contained in the manual are for the purpose of illustration and reference only.
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- All graphics in this manual are for reference only, some deviation between the image(s) and the actual product may occur.
- All wiring diagrams are intended for reference only, the photograph or graphic of the PCB(s) are intended for clearer illustration and understanding of the product and may differ from the actual PCB(s).

# 1. Introduction

## 1.1 General

The HLX-40 panel by Rosslare is the perfect wireless security system for intrusion protection of the home, or small office providing security monitoring and VIP Voice messaging.

Users receive the latest RF technology in a wide selection of advanced wireless sensors and remotes, and benefit from smooth and easy operation of a large number of security and communication options.

The HLX-40 panel is easy to install and set up via local programming and via direct or modem connection to a PC running the HLX-40 PC Software.

The panel has two full split reporting features for communicating to central station for Contact ID and 2-way voice enabled event reporting and vocal communications.

VIP features include Voice Assist, where the panel uses voice to prompt the user, Private Messaging to three destinations, with an optional 2-way voice session for every message.

The HLX-40 comes in three attractive designs:

- HLX-40
- HLX-40A
- HLX-40B

**Figure 1: HLX-40**



Figure 2: HLX-40A



Figure 3: HLX-40B



## 1.2 Special Features

- 40 zones – 39 wireless zones, 1 wired zone – and tamper
- Supports 8 remote controls, 4 wireless sirens, 4 wireless keypads, and 4 repeaters
- Programmable remote control buttons
- Interactive telephone voice menu (voice interactive)
- Flexible PGM automation features
- Five custom textual and recordable zone descriptions
- Advanced testing and diagnostics options
- Remote (telephone) two-way voice and listen-in
- Lockout feature upon wrong code entry
- Programmable No Activity timer (Version 2.0 and up)

## 2. HLX-40 Quick Reference

This chapter describes the control panel and the keypad, as well as the chimes emitted when the buttons on the keypad are pressed.

### 2.1 The Panel

Figure 4: HLX-40 Panel

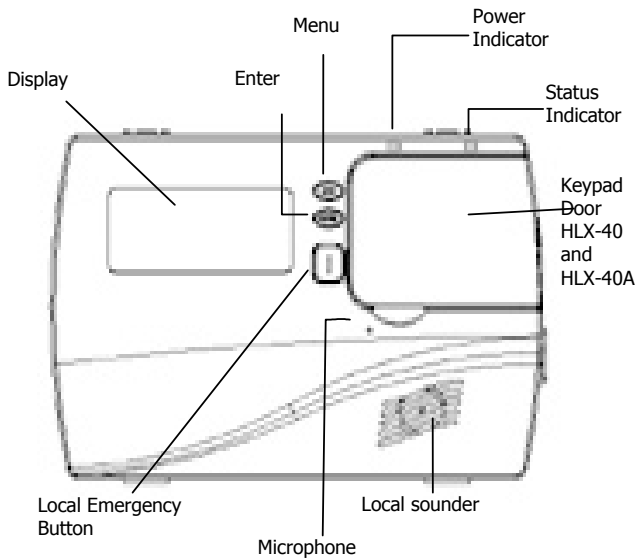


Table 1: Control Panel Functions

<b>Menu</b>	Use to navigate between menus
<b>Power indicator</b>	Power LED: green
<b>Status indicator</b>	Status LED: green On: system armed Off: system disarmed Flash: entry and exit delay (according to beep rate)
<b>Keypad door</b>	Open to access the keypad buttons
<b>Local sounder</b>	System speaker
<b>Microphone</b>	Enables the recording of voice messages
<b>Local emergency button</b>	Keep pressed for 3 seconds to sound a standard panic alarm
<b>Display</b>	LCD display
<b>Enter</b>	Accept an entry or selection

2.2 The Keypad

Figure 5: HLX-40 Keypad




Table 2 describes the keypad functions:

Table 2: Keypad Functions

Key	Icon	Press to
Menu		Navigate between User and Installer menus, and Normal mode. Navigate to the next menu or the next option within a menu.
Enter		Accept an entry or selection.
Local Emergency		When pressed for 3 seconds a standard panic alarm Sounds
Keys 0 – 9		Enter alphanumeric entries. Press 0 to enter a space.
Away		Arms all sensors and detectors for use when there is no one at home/office
Home		Arms all perimeter sensors and detectors as defined by the installer. For use when home/office is occupied
Disarm		Disarms all armed sensors and detectors

## HLX-40 Quick Reference

Key	Icon	Press to
Esc		Ignore an entry or move one level up in a menu.

### 2.2.1 Keypad Operated Functions

When the system is idle, the alphanumeric keys initiate the commands shown in Table 3.

**Table 3: Keypad Operated Functions**

Press	To
<b>0</b>	<b>Memory Display</b> Press once to display the alarms caused during the last arming period per zone. The first line of the displays shows the alarm memory, and the second line shows the zone description, event and time. The display toggles between zone description and the date by pressing the Enter button. Press <b>Menu</b> to display the next alarmed zone. Press <b>Esc</b> to exit. <b>Note: When EN-CENELEC standard is enabled, only the master user can access the memory display.</b>
<b>1</b>	<b>PGM ON</b> Press once to enter PGM activation mode, the PGM status is indicated on the right. Press 1 to activate PGM 1 and/or 2 to activate PGM 2.
<b>2</b>	<b>PGM OFF</b> Press once to enter PGM deactivation mode, the PGM status is indicated on the right. Press 1 to deactivate PGM 1 and/or 2 to deactivate PGM 2.
<b>3</b>	<b>Chime ON/OFF</b> Manually toggle the chime on and off.
<b>4</b>	<b>Volume</b> Manually toggle the beep volume level.
<b>5</b>	<b>Sound ON/OFF</b> Manually toggle voice messages, keypad tone, and other sounds on and off.
<b>6</b>	<b>Bypass</b> Enter the User menu Bypass option.
<b>7</b>	<b>Record User Message</b> Record a voice message of up to 15 seconds. Press and hold key 7 for 3 seconds to erase a message.
<b>8</b>	<b>Event Log Display</b> Press once to display the event log. The first line of the display shows the event log and the second line shows the zone description (or system, if a system event is displayed), event date and time. The display toggles between zone description and the date by pressing the Enter button. Press again or press <b>Menu</b> to display the next event. Press <b>Esc</b> to exit the menu. Note that a master code is required to access this function.

Press	To
9	<b>Play User Message</b> Listen to voice messages

## 2.3 Sound Indicators

Table 4 presents the sounds emitted by the system and push buttons if enabled during programming.

**Table 4: Sound Indicators**

Sound	Sounded when
<b>Single beep</b>	A key is pressed
<b>Long Beep</b>	There is an illegal key entry
<b>Three short beeps</b>	An entry is successfully accepted.
<b>Four short beeps a minute</b>	If enabled, on trouble condition.
<b>Short beep every second</b>	An exit/entry delay is activated (beep sounded every 0.5 seconds during last 10 seconds of delay)
<b>Chime 1 &amp; 2</b>	Two (2) various chime sounds, when feature is activated
<b>Chime 3</b>	Vocal announcement of "Zone Name" + Open

Aside from the indication sounds, the system also has a voice confirmation of various events.



This table does not include actual alarm sounds.  
Note that the audible indication of a fire zone differs from that of a normal intrusion zone.

## 2.4 LED Indicators

Table 5 describes the LED indicators of the power and status indicators

**Table 5: LED Indicators**

LED	Behavior
<b>Power LED</b>	<b>Green</b> ON when the system is ON. FLASHING when there is an AC power failure.
<b>Status LED</b>	<b>Red</b> OFF when system is disarmed ON when system is armed. FLASHING during entry/exit delay, according to the beep rate specified

### 3. Specifications

This chapter provides the various specifications in regard to all three HLX-40 control panels.

#### 3.1 RF Data

<b>RF Data</b>	
<b>RF Unit Type</b>	Integrated RF transceiver (two-way) shielded super heterodyne, fixed frequency
<b>Antenna Type</b>	Printed PCB type antenna
<b>Operating Frequencies</b>	433.92 MHz G series 868.35 MHz H series
<b>Receiver Sensitivity</b>	Up to -68 dBm (without GSM stick)
<b>Transmitter Power</b>	Up to +10 dBm, less based on country requirements
<b>Range (open field)</b>	Up to 250 m in open space for detectors, and 110 m for hand-held remote controls (without GSM stick)
<b>RF Device ID Coding</b>	Three-bytes non-replicated per sensor type, or multiples of 16 million possible codes, make it almost impossible to have two like coded transmitters

The HLX-40 system has optimum range if installed according to the manufacturer's recommendations, though this range may be affected by radio noise from high-power nearby sources, or interference with the signal (blocking) by large metal surfaces, or multiple concrete walls.

## 3.2 Environmental Data

Environmental Data			
	HLX-40	HLX-40A	HLX-40B
<b>Operation temperature:</b>	0°C to 60°C (32°F to 140°F)		
<b>Storage temperature:</b>	-25°C to 70°C (-13°F to 158°F)		
<b>Relative humidity:</b>	85% at 30°C (non-condensing)		
<b>Dimensions: L x W x D</b>	217 x 144 x 48 mm 8.54 x 5.67 x 1.89 in.	217 x 144 x 50 mm 8.54 x 5.67 x 1.97 in.	217 x 144 x 48 mm 8.54 x 5.67 x 1.89 in.
<b>Weight:</b>	520 g 1.15 lbs.	548 g 1.21 lbs.	530 g 1.17 lbs.

## 3.3 Electrical Data

- Two lines of 16 characters, backlit LCD display
- Two fully programmable PGM open collector outputs, 200 mA, PTC protected
- External hardwired siren output
- Case tamper protection
- On-board, supervised wired zone and wired tamper inputs
- Local, 80 dBA siren
- 220VAC/50 Hz, 110 VAC/60 Hz (13.8 VDC, 800 mA) external power supply
- Complies with the following standards:
  - CE, FCC, EN 50131-3, EN 50131-6, EN 50130-5, EN 50130-4, EN 60950-1, EN 50131-5-3, Security Grade 2, Environmental II
- Current consumption:
  - without GSM: 90 mA(standby) 500 mA(MAX)
  - with GSM: 120 mA(standby) 1000 mA(MAX)
- Auxiliary power output: 13.8 VDC, 500 mA max
  - Output voltage range max. 13.8 VDC/ min. 9 VDC
  - Maximum output pick-to-pick ripple 0.6 Vptp
  - Maximum auxiliary current output 200 mA- EN50131-6 standard

## Specifications

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- Battery
  - Internal backup battery: 800 mAh for 6 hours standby- not EN50131-6 standard
  - Internal backup battery: 2000 mAh for 14 hours standby
  - Low battery detection under 10 V
  - Maximum battery (2000mAh) recharge time 72 hours

### **3.4 Communication**

- Frequencies: 433.92 MHz (G) and 868.35 MHz (H)
- RF jamming detection (UL/EN selectable)
- Proprietary anti-collision RF protocol
- Programmable no-activity timer 1–30 minutes, per zone
- Two central station numbers and accounts, backup and secondary modes
- Reporting protocols: Contact ID
- Three private telephone numbers for voice reporting, and two way voice communications
- Local connection (with MD-62) port for local upload/download, and remote programming by PC software
- Built-in telephone dialer and 2400 Baud rate modem

## 4. Installation

### 4.1 Unpacking the Equipment

The contents of your package are listed below. First, make sure that all the items in the kit have been included. If you find that any item is missing, contact your dealer immediately.

#### 4.1.1 HLX-40 Package Content

- HLX-40/40A/40B unit
- Wall Adaptor
- Telephone cable
- Installation screw set

### 4.2 Supply Power to the Unit

It is easier to enroll the ID codes of the transmitting devices to the system before installation. Power the HLX-40 system using the external power transformer or from the backup battery.



Note

Please note that in order to initiate battery power, connect the battery, connect external power (transformer), and then disconnect the power to initiate battery power operation.

### 4.3 Planning & Programming

Register the location of each detector in the tables provided in Appendix A and B. Mark the transmitters and detectors accordingly.

To program the system, refer to Chapter 5.

To mount the HLX-40 unit, refer to Section 4.8.

### 4.4 Wiring the System

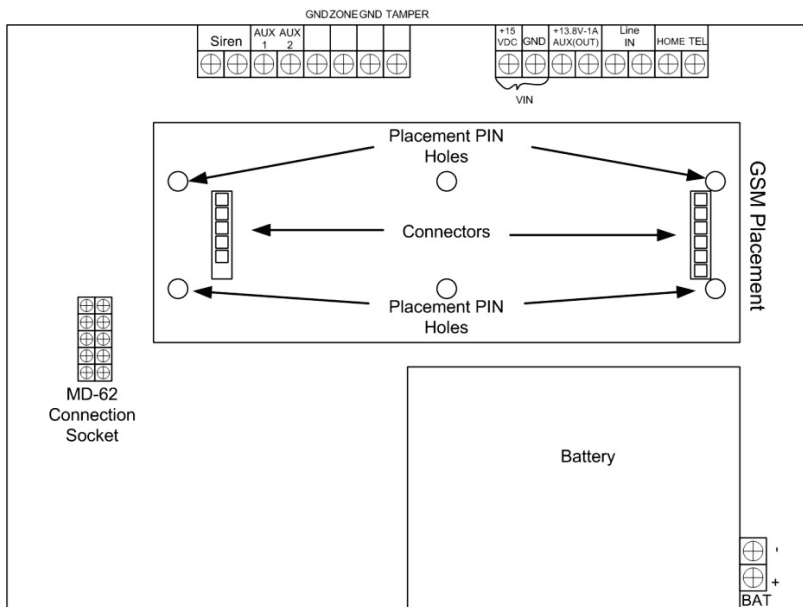
The HLX-40 wiring plan is shown in Figure 6.

Release the screw on each terminal block and connect accordingly.

## Installation

### 4.4.1 Wiring the HLX-40

**Figure 6: Panel Wiring**



Input	Description
<b>Siren</b>	Relay output for external siren or strobe. Normally open or normally closed for external siren contacts.
<b>AUX 1</b>	Programmable AUX outputs 1 and 2, 200 mA Sink Current 12VDC open collector outputs Active Low.
<b>AUX 2</b>	
<b>GND</b>	Ground
<b>ZONE</b>	Wired Zone (zone 40) Alarm input.
<b>GND</b>	Ground
<b>TAMPER</b>	Wired Zone (zone 40) Tamper input.
<b>+15VDC VIN</b>	Input voltage from AC/DC adaptor VIN = 13.8–15
<b>GND</b>	
<b>+13.8VDC (-) AUX (OUT)</b>	Auxiliary Power output (to power external devices) +13.8 VDC 500 mA Load current Max. Current limited.
<b>LINE IN</b>	Telephone line in (from the wall to the system).
<b>HOME TEL</b>	Telephone line out (from system to telephone device).
<b>MD-62 Connection Socket</b>	Connection Socket for 10 pin plug connecting panel to PC with MD-62.
<b>+BAT-</b>	Battery Connector

4.4.2 Resistors

The HLX-40 family is provided with 2 10.0 kOhm resistors for the hardwire zone and Tamper connections.

Figure 7, Table 6, and Table 7 help in the understanding of the resistor color scheme:

Figure 7: Resistors



Stripes 1 and 2 represent numbers that together with stripe 3 which represents the number of zeros represents the resistor's value in Ohm. Stripe 4 represents the tolerance. All resistors provided by Rosslare have a 5% tolerance represented by the color Gold. To read the Resistor number, hold the unit with the gold stripe on the right.

The color scheme is as follows:

Table 6: Resistor Color Scheme

Black	0
Brown	1
Red	2
Orange	3
Yellow	4
Green	5
Blue	6
Violet	7
Grey	8
White	9

Based on the above color scheme the resistor provided is as follows:

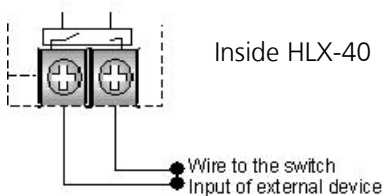
Table 7: Resistors Provided

Color Resistor	①	②	③
10.0 kOhm	Brown	Black	Orange

4.4.3 Siren Relay Output – Wiring to External Siren

The relay output for an external siren can be programmed as normally open or normally closed (fail-safe) operation.

**Figure 8: Wiring to External Siren**

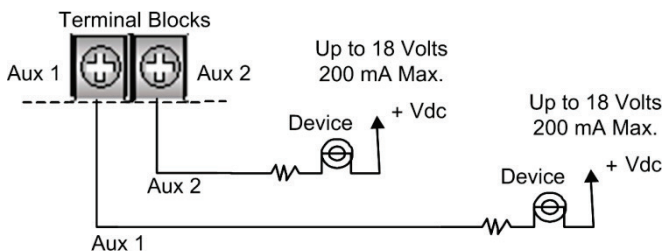


This output can be programmed by the installer to provide normally closed or normally open dry contact output. This relay output toggles the normal position in case of an alarm and operates in the same method as the local siren.

### 4.4.4 Wiring Auxiliary Outputs 1 and 2

Auxiliary outputs 1 and 2: This pair of outputs is an open collector with sink current limited at 200 mA. The outputs work by connecting an external device to power supply through an internal transistor in order to turn it on.

**Figure 9: Wiring to Aux Outputs**



Both Aux 1 and Aux 2 have the same selection of programming. When programming the Aux 1 and Aux 2 open collector outputs, it is possible to select from several operational modes from the programming menu as described in Sections 6.7 and 6.7.2.

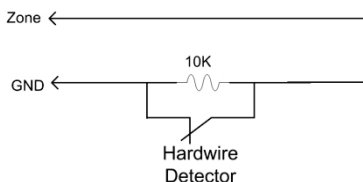
### 4.4.5 Wiring the ZONE 1 Wired Input

Wire input zone 40 for wired door detector.



The wired zone is disabled by default to work with a wired zone. The option needs to be enabled by the installer.

**Figure 10: Wiring to Zone 1 Input**

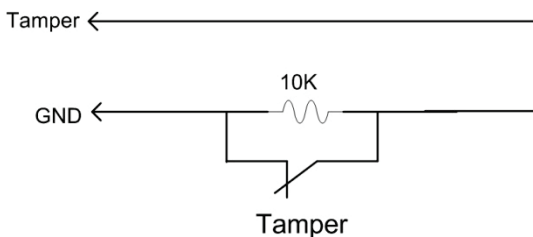


This wired input acts as a regular sensor and functions likewise in armed and disarmed mode.

### 4.4.6 Wiring the Wired Tamper Input

Wire tamper input: 24-hour active on zone 40.

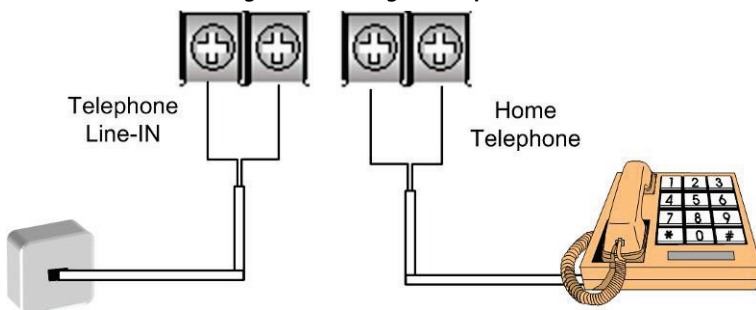
**Figure 11: Wiring to Tamper Input**



### 4.4.7 Wiring the HLX-40 Telephone Connectors

Terminal Blocks for Line-In and Tel Line-Out

**Figure 12: Wiring to Telephone**



## 4.5 Connecting the MD-CC101 GSM Stick

The HLX-40 has an optional GSM stick, which enhances the system's performance by allowing GSM communication used as a backup line communication when a problem occurs with the PSTN line.

When using the GSM module, the system also allows a private phone to receive both voice and SMS messages (alerts, troubles, bypass, arm/disarm). The user can also send commands to the system via SMS messages, allowing arming (home/away), disarming, and PGM activation/deactivation.

The system automatically detects the availability of the GSM stick upon initial power up; it also tests the reception levels and displays them on the screen. The reception must be above 21.00 to be ready for use.

Some menu options are only available if the GSM stick is detected.

The GSM stick enhancement only works with a battery pack connected.

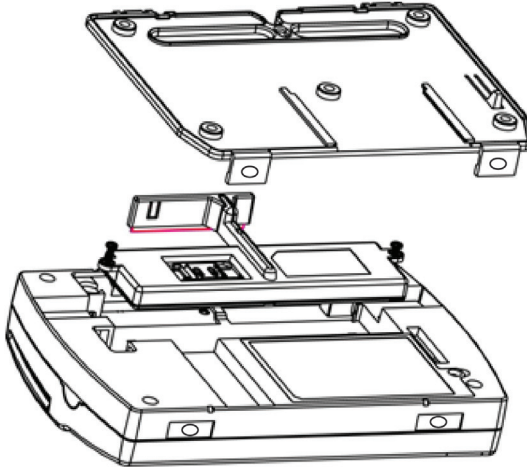
## Installation

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### *To connect the MD-CC101 GSM stick:*

1. Insert the GSM stick into the connector slots located on the back of the HLX-40 see Figure 13.
2. Tighten the placement screws on both sides of the GSM stick to secure onto the panel.
3. Open the SIM holder by sliding it sideways.
4. Insert the SIM card into the holder and close the holder.

**Figure 13: GSM Assembly**



## **4.6 Connect the AC Transformer**



Note

Complete all the wiring and programming before plugging the transformer in the AC outlet.

### *To connect the AC transformer:*

1. Attach the transformer and power up the system.  
The display shows the HLX-40 logo and the current version.
2. Plug in the transformer.  
The power LED on the control panel should light up.

## **4.7 Connecting to a PC**

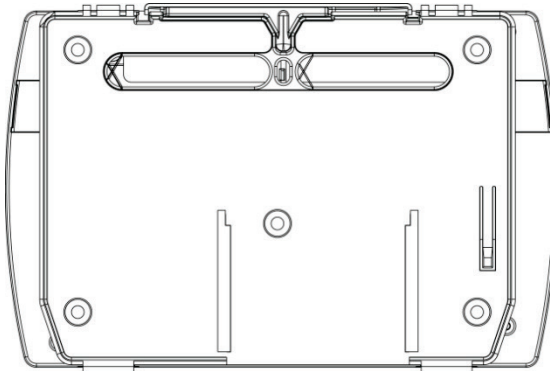
The control panel can be equipped with an optional MD-62 adaptor for serial data interchange with a computer.

## 4.8 Mounting the Back Plate

### 4.8.1 General

To complete the installation without exposed wires, all the wiring should be done through the wall. The wiring to the back plate can be done without having exposed wires, by installing the panel on a standard electrical box, or making a hole in the wall for the wiring.

**Figure 14: Back Plate**



**Figure 15: Back Plate Mounting and Wiring**



It is preferable for all cables and wires, to be wired through an opening in the wall, to expose any wire tampering and to create a neat looking system.

When drilling the hole for the wires, it is recommended to drill the hole in the marked out area.



**Note**

It is important to mount the back-plate first before connecting any of the wiring to the unit.

### 4.8.2 Required Space

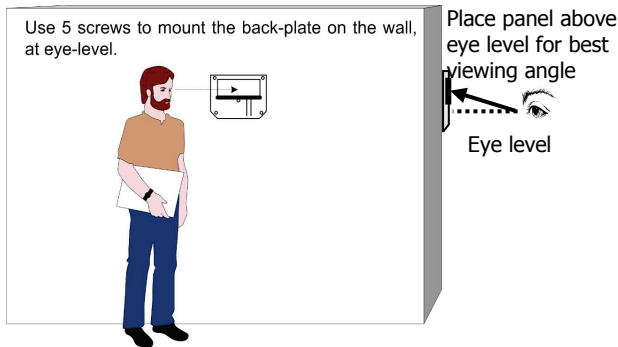
The required space on the wall for the panel is (L) x (H). The hole size for the wires is 2 x 5 cm. This is to be drilled according to the openings on the back plate.

## Installation

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The optimum viewing angle of the LCD is achieved when the panel is mounted **above** the eyelevel of the user.

**Figure 16: Mounting**



### 4.9 Dismounting the Control Panel

*To dismount the control panel:*

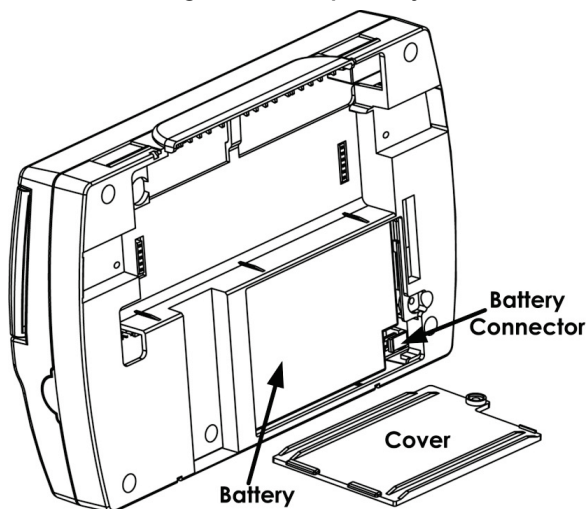
1. Release HLX-40 from the mounted back plate by unscrewing the bottom screws and unlocking the locking hooks on the top of the back plate by lifting them up and out of the recesses on top of the panel.
2. Pull the top of the panel away from the wall to disconnect the connector to the back plate and then remove the panel from the lower posts of the back plate.

### 4.10 Replacing the Backup Battery

*To replace the backup battery:*

1. Dismount the panel.
2. Remove the battery cover.
3. Replace the battery.
4. Replace the cover.

**Figure 17: Backup Battery**



# 5. Programming the HLX-40

## 5.1 Overview

We recommend that you program HLX-40 before installing it. The system must be connected to the AC power supply for programming; you may also connect the backup battery at this time.

HLX-40 is provided with two default codes:

- Default installer code: 8888 – Enables you to program HLX-40
- Default Master code: 1234 – Enables you to change the master code and modify the User and Master options

We recommend that you change the master and installer codes after first time use.

## 5.2 Enrolling Wireless Devices and Remote Controls

You can enroll detectors, remote controls, keypads, sirens, and repeaters.



Note

Enrolling is not available for Wired Zone #40. It can only be enabled or disabled (default: disabled). Zone 40 uses the wired zone and tamper inputs.

Before enrolling wireless devices and remote controls, make sure they all contain the appropriate batteries.

## 6. Installer Menu

The Installer's menu enables access to the following group of options:

- Change code
- Zones
- Enrolling
- Security
- Communications
- Automation
- Messages
- Maintenance

### 6.1 Accessing the Installer Menu

1. Press the **Menu** button twice to reach the *INSTALLER MENU* option and press **Enter**.



Note

The default Installer menu code is "8888".

If a wrong code is entered, the system indicates that an illegal code was entered and waits once again for the correct code to be entered. After 30 seconds of no entry, the system returns to Normal mode automatically.



Note

The system locks out for 90 seconds after entering 5 wrong codes.

No activity within the menu for 4 minutes causes the system to return to Normal mode. To return to Normal mode before 4 minutes pass, press the **ESC** button.

2. Once in the *INSTALLER MENU*, use the **Menu** button to browse the submenus.
3. Press **Enter** to access the desired submenu as detailed below.



Note

Some menus can be accessed directly by typing the option number instead of scrolling the various options.

6.2 Change Code

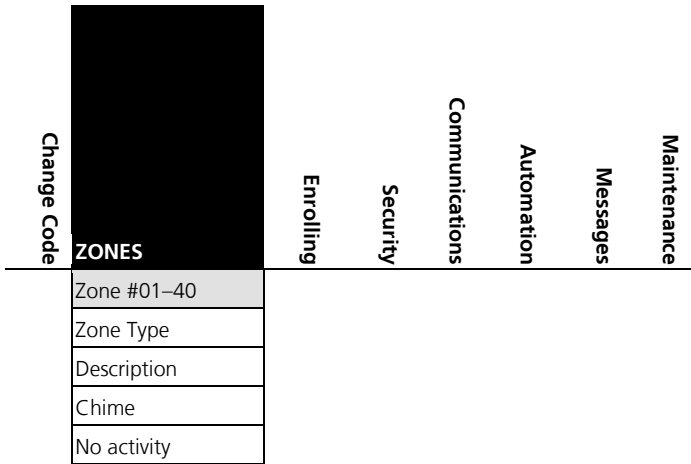


This option enables you to change the code with which you enter the system. The default code is 8888.

*To change the installer code:*

- 1. Press the **Enter** button to access the submenu.  
The first submenu is *CHANGE CODE*.
- 2. Enter a new four-digit installer code.
- 3. Press **Enter** to save your new code.

6.3 Zones



This menu allows you to define each of the 40 available zones. You can define the zone type, description, activity type and its audible chime indication.

*To specify zones:*

- 1. Press the **Enter** button twice to access the second submenu: *ZONES*.
- 2. Select the required zone by either browsing all 40 using the **Menu** button or by entering the zone number using the numeric keypad.

- 3. Once in the desired zone, use the **Menu** button to browse the options.
- 4. Press **Enter** to access the desired submenu to define several characteristics as follows:
  - **Zone Type:** Select one of the following:
    - Interior
    - Perimeter
    - Delay
    - Fire
    - 24 Hour Silent
    - 24 Hour Audible
    - Chime (No Secure)

**Description:** Select one of 38 fixed descriptions or one of five editable custom descriptions. HLX-40 enables you to specify five custom zones (see Section 6.8.3).

For your convenience and better control of the installation, use the tables provided in Appendix A.

- **Chime:** Select one of two available chimes, Announcement chime (Chime 3), or no chime at all. By default all zones are set to no chime – *Chime Off*.
- **No Activity:** Select to enable or disable the no activity time for each zone. Select **Enabled** or **Disabled**; by default the option is disabled.

6.4 Enrolling

Change Code	Zones	ENROLLING	Security	Communications	Automation	Maintenance Messages
		Detectors				
		Remote Controls				
		R. Sirens				
		Keypads				
		Repeaters				

The third submenu is *ENROLLING*.

## Installer Menu

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Browse the desired devices listed below to be enrolled using the **Menu** button and access it by pressing the **Enter** button:

- Detectors
- Remote controls
- RF Sirens
- Keypads
- Repeaters

### 6.4.1 Detectors

You can enroll up to 39 detectors, one detector per zone, numbered 01 through 39. Zone no. 40, which is dedicated to a hardwire detector, can only be enabled or disabled under this submenu. By default, this zone is disabled.

#### *To enroll/delete a detector:*

1. Select the desired zone by either browsing all 39 zones using the **Menu** button or by entering the zone number using the numeric keypad.
2. Select enrollment method, either **Normal** or **Tamper**.
  - If no detector is associated to the selected zone, the screen shows a message saying "waiting for detector signal" for 30 seconds.
  - When browsing the zones, each zone already enrolled indicates "RF ID code".
3. Press **Enter** to delete the detector (or **ESC** to go back).
4. Initiate a transmission from the detector.
  - In **Normal** enrollment any transmission is accepted (Alarm, Tamper, or any other transmission available, see the detector's manual for reference).
  - In **Tamper** enrollment, only Tamper activation is accepted all other signals are ignored.



Tamper enrollment is suitable for areas with multiple sensors thus preventing false enrollment.

5. When the transmission is detected, you are asked to press the **Enter** button to store the detector into the zone.



When enrolling smoke and heat detectors, make sure to select the zone type "fire".

If no signal is received with the allocated 30 seconds, the unit returns to Normal mode.

### 6.4.2 Remote Controls

You can enroll up to eight remote controls and specify functions for each button on the remote control. You can also delete enrolled remote controls.

#### *To enroll a remote control and specify a function:*

1. Select the desired remote control number 01–08 by either browsing the remotes using the **Menu** button or by entering the remote number using the numeric keypad.
2. Enroll the remote control when the *WAITING FOR SIGNAL* message is displayed, by pressing a button on the remote you wish to enroll.
3. When the signal is detected you are asked to press the **Enter** button to store and save your selection.
4. Once the selection is stored, you can then choose to configure each of the remote control buttons to behave in one of the following options:
  - Restore Default (sets the button to its original functionality)
    - Operate PGM 1
    - Operate PGM 2
    - Status Request
5. At any time press the **ESC** button to exit the menu.



Once you exit the menu (after saving the enrollment) you cannot change the button's behavior, unless you delete the remote and re-enroll it.

#### *To delete a remote control*

1. Select the pre-enrolled remote control number 01–08 by either browsing the list of remotes using the **Menu** button or by entering the remote number using the numeric keypad.  
You are asked to confirm deletion.
2. Press **Enter** to delete the detector or the **ESC** button to go back.

### 6.4.3 RF Siren

You can enroll up to four RF sirens. You can choose to remove enrolled sirens.

#### *To enroll/remove an RF siren:*

1. Select the required Siren location, #01–04 by either browsing the keys using the **Menu** button or by entering the siren's number using the numeric keypad.
2. Enroll the RF Siren when the *WAITING FOR SIGNAL* option is displayed by activating the siren's tamper.
3. When the signal is detected, you are asked to press the **Enter** button to store and save your selection  
If the selected location has a siren enrolled, you are asked whether you wish to delete it.
4. Press the **Enter** button to delete or the **ESC** button to go back.

## Installer Menu

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### 6.4.4 Keypads

You can enroll up to four keypads. You can choose to remove enrolled keypads.

#### *To enroll/remove a keypad:*

1. Select the required keypad location, #01–04 by either browsing the keys using the **Menu** button or by entering the keypad's number using the numeric keypad.
2. Enroll the keypad when the *WAITING FOR SIGNAL* option is displayed.
3. When a signal is detected, you are asked to press the **Enter** button to store and save your selection  
If the selected location has a keypad enrolled, you are asked whether you wish to delete it.
4. Press the **Enter** button to delete or the **ESC** button to go back

### 6.4.5 Repeaters

You can enroll up to four repeaters. You can choose to remove enrolled repeaters.

#### *To enroll/remove a repeater:*

1. Select the required repeater location, #01–04 by either browsing the keys using the **Menu** button or by entering the repeater's number using the numeric keypad.
2. Enroll the repeater when the *WAIT FOR SIGNAL* option is displayed, by activating the tamper.
3. When the signal is detected, you are asked to press the **Enter** button to store and save your selection  
If the selected location has a repeater enrolled, you are asked whether you wish to delete it.
4. Press the **Enter** button to delete or the **ESC** button to go back

6.5 Security

The following is a list of the system’s security features.

Change Code	Enrolling	SECURITY	Communications	Automation	Messages	Maintenance
		Exit Delay				
		Entry Delay				
		Auto Arming				
		Siren Time				
		Siren Mode				
		Relay Polarity				
		Local Siren				
		Wired Siren				
		Supervision Time				
		Jamming				
		No Activity Time				
		Trouble Beeps				
		Bypass Option				
		Quick Arm				
		Instant Arm				
		Panic Button				
		Duress Code				
		Alarm Cancel				
		Alarm Abort Time				
		Backlight Time				
		Hide Display				
		Key Beeps				
		Select Language				
		EN-CENELEC				

The fourth submenu is *SECURITY*. Browse the desired security related settings as described in the following subsections using the **Menu** button. Press the **Enter** button to access the desired submenu.

## Installer Menu

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### 6.5.1 Exit Delay

An exit delay enables the user to arm the system and exit the site through a specified door using a predetermined path after arming the system, without setting off an alarm.

A slow-rate warning beeps sound when the system is armed. The system counts down (voice indication) the last ten seconds of the delay. The exit delay is set at 30 seconds by default.

#### *To specify the exit delay:*

1. Using the numeric keypad, specify the length of time for the exit delay between 1 and 99 seconds.
2. Press **Enter** to save your selection.

### 6.5.2 Entry Delay

An entry delay enables the user to enter the site through a specified door using a predetermined path, without setting off an alarm. The entry delay is set at 30 seconds by default.

After entry, the user must disarm the system before the entry delay expires. A slow-rate warning beeps sound upon detection of the specified zone/s, the system counts down (voice indication) the last ten seconds of the delay.

#### *To modify the entry delay:*

1. Using the numeric keypad, specify the length of the entry delay between 1 and 99 seconds.
2. Press **Enter** to save your selection.

### 6.5.3 Auto Arming

Auto Arming allows scheduled arming and disarming of the system for all weekdays at different hours.

#### *To activate auto arm:*

1. Using the **Menu** button, select the day of the week.
2. Press **Enter** to confirm.
3. Using the **Menu** button, select one of the following options:
  - Disabled
  - Arm Home
  - Arm Away
4. Press **Enter** to confirm.
5. Using the numeric keys, enter the system arming time (24H).
6. Press **Enter** to confirm the time.
7. Set the Alarm Duration between 1 – 9999 minutes, or enter 0 (Zero), to disable Auto Arm Duration. (The panel remains armed until disarmed by an authorized user.)

### 6.5.4 Siren Time

This specifies the amount of time the siren sounds when an alarm has been set off. The siren time is set to three minutes by default. This relates to all siren types, wired, wireless and local.

#### *To specify the siren time:*

1. Using the numeric keypad, specify the length of the siren time between 00 and 99 minutes (00 disables the siren)
2. Press **Enter** to save your selection.

### 6.5.5 Siren Mode

You can specify whether you want the siren to be activated when armed in Away mode only or when armed both in away and home arming modes. The siren mode is set to **Away + Home** by default. This relates to all siren types, wired, wireless and local.

#### *To specify the siren mode:*

3. Using the **Menu** button, select one of the following options: **Away** or **Away + Home**.
  1. Press **Enter** to confirm.

### 6.5.6 Relay Polarity

Depending on the input trigger of the hardwired siren you are using specify the relay polarity to either Normally Open or Normally Closed. The siren relay polarity is set to N.O. (normally open) by default.

#### *To set the relay polarity:*

1. Using the **Menu** button, select one of the two options:
  - N.O.
  - N.C.
2. Press **Enter** to confirm.

### 6.5.7 Local Siren

Specifies whether an activated alarm causes an internal siren (emitted from the system's speaker) to sound or remain silent. The local siren is enabled by default.

#### *To set up a local siren:*

1. Using the **Menu** button, select either **Enable** or **Disable**.
2. Press **Enter** to confirm.

### 6.5.8 Wired Siren

Enables or disables the wired siren. Wired siren is enabled by default.

#### *To set up a wired siren:*

1. Using the **Menu** button, select either **Enable** or **Disable**.
2. Press **Enter** to confirm.

## Installer Menu

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### 6.5.9 Supervision Time

The supervision time submenu specifies the time limit during which the system receives supervision reports from specified wireless devices. If a device does not report in at least once within the specified time limit, the system initiates an inactivity alert. The default supervision time is set to one hour.

*To specify the supervision time:*

1. Using the **Menu** button, select one of the time limit options, **20 minutes, 1, 2, 4, 6, 8, 16, 24 or 48** hours.
2. Press **Enter** to confirm.

### 6.5.10 Jamming

Specifies whether the system detects and reports jamming – interferences of the radio channel used by the system.

The jamming detection is disabled by default.

*To specify jamming detection:*

1. Using the **Menu** button, select one of the following options:
  - **Disabled:** to disable jamming detection
  - **EN enabled:** to enable European standard jamming detection
  - **UL enabled:** to enable US standard jamming detection
2. Press **Enter** to confirm.

### 6.5.11 No Activity Time

Specifies the time limit in which the system should receive a signal from a sensor used to monitor the activity of sick, elderly or disabled people. If no device detects and reports movement at least once within the specified time limit, a “not active alert” sounds and a report is sent to the CMS (if reporting is enabled). This option is disabled by default.



Note

The behavior of the no activity zone feature varies when in Arm or Disarm modes:

- When Disarmed – Alert is sent to CMS
- When Armed – An alarm is heard and an alert is sent to CMS

*To set the no activity time:*

1. Using the **Menu** button, select one of the following options:
  - **1, 2, 5, 10, 15, or 30** minutes
  - **Disable** the timer
2. Press **Enter** to confirm.



Note

Required zones’ “No Activity” option should be set to ‘Enabled’ for this security feature to work.

### 6.5.12 Trouble Beeps

This parameter determines whether the system emits a “trouble beep” indicated by a series of four short beeps once a minute for the following “Trouble” events:

- Low battery (detectors and system)
- Supervision loss (detectors)
- Power (AC) failure (system)
- Communication failure (system)
- Tamper (system and zones)
- RF jamming
- Short circuit in wired zone

The default is set to **Disabled**

The HLX-40 allows you to enable the beeps for daytime only 8:00 AM to 8:00 PM.

*To specify trouble beeps:*

1. Using the **Menu** button, choose **Disable, Day & Night (enable), or Day Only** for the trouble beeps.
2. Press **Enter** to confirm.

### 6.5.13 Bypass Option

Specifies either manual bypassing of individual zones, or enables the system to forcedly arm open zones when armed. Bypass is turned off by default.

*To set bypass:*

1. Using the **Menu** button, select one of the following options:
  - **Off** to set the bypass off
  - **Off/Force** allows forced arming (automatic bypass) only
  - **Manual** allows manual bypass only
  - **Manual/Force** allows both forced arming (automatic bypass) and manual bypass
2. Press **Enter** to confirm.

### 6.5.14 Quick Arm

Enables the user to arm the system without entering a code; Quick Arm is set to disable by default.

*To enable/disable quick arm without a code:*

1. Using the **Menu** button, select either **Enable** or **Disable**.
2. Press **Enter** to confirm.

*To utilize quick arm:*

1. Press continuously on the **AWAY** or **HOME** keys to arm **AWAY** or **HOME**.

## Installer Menu

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### 6.5.15 Instant Arm

Enables the user to instantly arm the system by bypassing the Exit Delay; Instant Arm is set to disable by default.

*To enable/disable the Instant Arm option:*

1. Using the **Menu** button, select either **Enable** or **Disable**.
2. Press **Enter** to confirm.

*To utilize Instant Arm:*

1. Arm the system using one of the arming options. Once the exit delay countdown initiates, press either the **AWAY** or **HOME** keys once again.

### 6.5.16 Panic Button

The user can generate an alarm (audible or silent) by pressing continuously on the emergency button on the control panel. The remote control panic button remains active at all times if enrolled. The local emergency button is disabled by default.

*To set a panic button:*

1. Using the **Menu** button, select one of the following options:
  - **Audible:** to set an audible panic alarm that transmits a message to the CMS or private telephone set.
  - **Silent:** to set a silent panic alarm that transmits a message to the CMS or private telephone set, but without a siren
  - **Disabled:** to disable the panic alarm button all together
2. Press **Enter** to confirm.

### 6.5.17 Duress Code

The system allows you to define a duress code, which a user can enter when forced to disarm the system under duress. The duress code is disabled when there is no duress code defined in the system. By default, the duress code option is disabled.



The duress code should NOT be identical to any other existing code.

*To change the duress code:*

1. Type a new four-digit duress code using the numeric keypad.
2. Press **Enter** to save your new code.

### 6.5.18 Alarm Cancel

Specifies the amount of time during which if the user disarms the alarm, the system sends a "Cancel Alarm" message to the central station. By default, *Alarm Cancel* is set to 00 minutes (disabled).

#### *To set the Alarm Cancel:*

1. Using the numeric keypad, set the alarm cancel time between 01–60 minutes or **00** to disable the option.
2. Press **Enter** to confirm.

### 6.5.19 Alarm Abort Time

The system sounds a warning, but the central station does not receive notification of the alarm if the user disarms the system within the specified alarm abort time. This function applies to interior and/or perimeter zones only. The *Alarm Abort Time* is set to 00 minutes (disabled).

#### *To set the alarm abort time:*

1. Using the numeric keypad, set the alarm abort time between 01–60 seconds or **00** to disable the option.
2. Press **Enter** to confirm.

### 6.5.20 Backlight Time

Specifies the backlight options; by default, the backlight time is set to 15 seconds.

#### *To set the backlight:*

1. Using the **Menu** button, select one of the following options:
  - **Always:** to specify that the keypad and buttons are backlit at all times.
  - **15 secs:** to specify that the keypad and buttons are backlit for up to 15 seconds after last key press.
2. Press **Enter** to confirm.

### 6.5.21 Hide Display

Enables you to specify that when armed, the system does not display the system statuses or other system prompts; by default, *Hide Display* is off.

#### *To display the system status:*

1. Using the **Menu** button, select one of the following options:
  - **Off** to display status and prompts.
  - **On** to hide status and prompts.
2. Press **Enter** to confirm.

## Installer Menu

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### 6.5.22 Key Beeps

Choose to turn key beeps on to hear a beep on each key press; by default, Key Beeps is off.

#### *To set the key beeps:*

1. Using the **Menu** button, select one of the following options:
  - **On** to turn the key beeps on
  - **Off** to turn the key beeps off
2. Press **Enter** to confirm.

### 6.5.23 Select Language

The HLX-40 supports multiple languages for both the textual messages and audio feedback. Choose the system language of your choice; by default the language is set to English.



Note

Please note that for Greek, the display shows the Greek language in Latin characters; however, the audio feedback is in Greek.

#### *To set the system language:*

1. Using the Menu button, select one of the following languages:

▪ English	▪ Portuguese
▪ Spanish	▪ Greek
▪ Italian	▪ German
2. Press **Enter** to confirm.

### 6.5.24 EN-CENELEC

The HLX-40 supports CENELEC standard settings. By default, all CENELEC standard settings are enabled. During the installation process, the installer may enable or disable each setting according to the local requirements.

The menu includes the following:

- Status
- Ready Options
- Access Level
- Event Filter

#### *To set the standard status:*

1. Using the **Menu** button, select either **Enable** or **Disable**.
2. Press **Enter** to confirm.



Note

Enabling the standard sets all the standard features to Enable state and the event filter is set to 10.

Disabling the standard sets all the standard features to disable state and the event filter is set to 0.

### *To set the ready option:*

1. Using the **Menu** button, select either **Tamper, Low Battery, AC Fail, Comm Fail, Line Fail, Panic, or Supervision.**
2. Press **Enter** to choose the submenu.
3. Using the **Menu** button, select either **Enable** or **Disable.**
4. Press **Enter** to confirm.

The ready option restricts the relevant parameters so that the system cannot be armed during the violation of that parameter.

**Example:** Setting the AC Fail parameter to enable restricts the system from being armed until the power supply returns.

### *To set the access level:*

1. Using the **Menu** button, select either **Memory Alarm, System Status, or Arm Instant.**
2. Press **Enter** to choose the submenu.
3. Using the **menu** button, select either **Enable** or **Disable.**
4. Press **Enter** to confirm.

The access level options, restricts the information actions to be accessible to the user by pressing PIN number.

Usually system's status information is valid to the user by pressing the **Enter** key. Setting each parameter to enable, the enter key should be followed by a PIN code.

### *To set the event filter:*

1. Using the numeric keypad, specify the value for the event filter between 0 and 10 cycles.
2. Press **Enter** to save your selection.

An event filter enables the user to specify the maximum repetition of a specific event in a session. A session is a period between each of the arming and disarming operations.

Setting the event filter to '0' enables specific events to be recorded with no filtering to the event log.



Note

Setting '0', '1', '2' value in the event filter is not compatible with CENELEC standard.

6.6 Communications

Change Code	Enrolling Zones	Security	COMMUNICATIONS	Automation	Messages	Maintenance
			System Telephone			
			GPRS Setup			
			Private Report			
			CS Report Setup			
			Line Test			
			AC Fail Report			
			Fax Defeat			
			2WV Setup			
			Number of Rings			
			Select Region			


The fifth submenu is *Communication*, which involves the setup of system communications parameters and settings with the outside world. Browse the desired communication related setting, as described in detail below, using the **Menu** button. Press the **Enter** button to access it.

6.6.1 System Telephone

This menu allows you to specify the telephone number used for the ring back option when calling the system telephone.

*To set up the system telephone:*

- 1. Press **Enter** to access the *Telephone Number* submenu.
- 2. Using the numeric keypad, enter the system telephone number. Use the asterisk key (\*) to enter a comma. Use the pound key (#) to delete the last digit.
- 3. Press **Enter** to confirm.



When setting up the system telephone, use a comma (,) to indicate a delay when dialing a number.

Note

6.6.2 GPRS Setup

The unit can connect to the HR-P02 application using GPRS communication. The settings that allow GPRS communication need to be defined in the HLX-40 unit itself, using the HR-P02 software application and the PC on which it is installed.

This menu allows you to define and setup the GPRS settings of the HLX-40 unit according to the network provider specifications. Contact your service provider for the list of parameters as defined by the cellular network provider.

For detailed instructions of the PC and application setup, please refer to the HR-P02 software manual.

### *To set up the GPRS communication:*

1. Press **Enter** to access the *GPRS Setup* submenu.
2. Using the **Menu** button, select each of the following submenus and press **Enter** to confirm.
  - a. **APN** – Enter the GPRS access point.
  - b. **User Name** – Enter the GSM provider name.
  - c. **Password** – Enter the GSM provider's password.
  - d. **Server IP** – Enter the network's server IP.
  - e. **Server Port** – Enter the network's server port.
  - f. **Listen Port** – Enter the Listen Port number with which the software connects to the unit.

Use the numeric keypad to enter alphanumeric values for each parameter. Use the asterisk key (\*) to enter a comma. Use the pound key (#) to delete the last digit.

3. Press **Enter** to exit to the *GPRS Setup* submenu.

### 6.6.3 Private Report

This menu enables you to set the private telephone report options as detailed below.

### *To set up private report:*

1. Using the **Menu** button, select each of the following submenus and press **Enter** to confirm:
  - a. **Set Numbers** – Specify the telephone numbers of the subscribers to which the system reports. You can enter up to three numbers.
    - i. Using the **Menu** button, choose between number 1, 2 or 3 and press **Enter**.
    - ii. Using the numeric keypad, enter the telephone number and press **Enter** to confirm. Use the asterisk key (\*) to enter a comma. Use the pound key (#) to delete the last digit.
  - b. **Link Type** – Choose between PSTN and GSM communication types.



Note

If the GSM stick is not installed, the Link Type is set to PSTN, and cannot be changed.

- c. **Report Options** – Specify the event groups that are included in a report.

## Installer Menu

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2. Using the **Menu** button, choose the reporting options for each group as desired, the options are **Disable**, **Enable**, **Voice Alert**, **Text Alert**, or **Both voice and text**.
3. Press **Enter** to confirm. The available reporting groups are:
  - Alarms (Voice by default)
  - Troubles (Voice by default)
  - Alerts
  - Bypass
  - Arm/disarm
  - Restore
4. Press **ESC** to exit the submenu.
5. **Dialing Attempts** – Specify the number of cycles the panel goes through while attempting to connect to a remote private phone, where a cycle consists of up to 3 different remote private phones. The default is **3** attempts.
  - a. Using the numeric keypad, enter the **dialing attempts value between 1 and 15**.
  - b. Press **Enter** to save.

### 6.6.4 CS Report Setup

This menu allows you to set the Central Station (CS) report options.

#### *To set up CS report:*

1. Using the **Menu** button, select each of the following submenus and press **Enter** to confirm:
  - a. **CS Report method** – Specify the reporting method.
    - i. Using the **Menu** button, select one of the following:
      - Disable (default)
      - Primary Only
      - Alternate
      - Secondary Only
      - Both
    - ii. Press **Enter** to confirm.
  - b. **CS Primary** – Specify the first telephone number of the first central station to which the system reports in case of an event as well as the primary account code and report options.
  - c. **Phone Number** – Using the numeric keypad, enter the primary CS telephone number and press **Enter** to confirm. Use the asterisk key (\*) to enter a comma. Use the pound key (#) to delete the last digit.



Note

For PABX use the digit followed by "\*" and then the full number.

- d. **Account Code** – The number that identifies your system to the central station. The account code range is 0–9, B, C, D, E, and F.
  - i. Using the alphanumeric keypad, enter a code of four digits/letters
  - ii. Press **Enter** to confirm
- e. **Report Options** – Specify the event groups that are included in a report.
  - i. Using the **Menu** button, choose the reporting options for each group as desired, the options are Disable, and Enable. Press **Enter** to confirm, the available reporting groups are:
    - Alarms
    - Troubles
    - Alerts
    - Bypass
    - Arm/disarm
    - Restore
  - ii. Press **ESC** to exit the submenu.
- f. **Ack Timeout** – Specify the time that the system has to send a report event before the report alert is discontinued.
  - i. Using the alphanumeric keypad, set the value of the Ack timeout to a value of 10 to 60. Press **Enter** to confirm.
- g. **Signal Gain** – Specify the strength of the DTMF.
  - i. Using the alphanumeric keypad, set the value of the signal gain to a value of between 100 to 9999. Press **Enter** to confirm.
- h. **CS Secondary** – Specify the secondary Central Station (see CS Primary above for detailed options and instructions).
- i. **CS Protocol** – Specify the reporting protocol used by the system to report events to the central stations. Currently only **Contact ID** is available.
- j. **Dialing Attempts** – Specify the number of times the system attempts to dial the primary stations number before attempting to dial the secondary number. The default is **3** attempts.
  - i. Using the numeric keypad, enter the **dialing attempts value between 1 and 15**.
  - ii. Press **Enter** to save.
- k. **Link Setup** – Specify the communication type used for each of the two central stations (CS primary and CS secondary).

## Installer Menu

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- i. *CS Primary*– Using the **Menu** button, select either PSTN or GSM communication types. Press **Enter** to confirm.
- ii. *CS Secondary*– Using the **Menu** button, select either PSTN or GSM communication types. Press **Enter** to confirm.



If the GSM stick is not installed, the Link Type is set to PSTN, and cannot be changed.

### 6.6.5 Line Test

Enables you to specify the time when the phone line and CS reporting are tested and reported to the central station, as well as the time interval between each test (periodic reporting).

#### *To set up line test:*

1. Using the **Menu** button, select one of the two options to define, and press **Enter** to confirm:
  - **Repeats** – Specify the number of days between tests. Using the numeric keypad, choose **1** to **30** days press **Enter** to save; default is **7**.
  - **Test\_Time** – Specify the hour of the day to perform the line test. Using the numeric keypad, type the four digits of the desired hour (24H convention), press **Enter** to save. The test time is set at **12:00** by default.

### 6.6.6 AC Fail Report

This option allows you to specify a delay time, before reporting the power failure to the CS, in which time power may be restored. The time is set to **0** (disabled) by default.



Power (AC) failure is indicated by the Power LED, which flashes green.

#### *To set up AC fail report:*

1. Using the numeric keypad, set the time between **1–240** minutes, or set it to **0** to disable the option.
2. Press **Enter** to confirm and save your selection.

### 6.6.7 Fax Defeat

When calling the system, fax and answering machines may need to be overridden. This menu specifies whether to enable or disable this override. By default, this option is disabled.

#### *To set up Fax Defeat:*

1. Using the **Menu** button, **Enable** or **Disable** the option.
2. Press **Enter** to confirm.

### 6.6.8 2-Way Voice Behavior

The HLX-40 panel enables the CMS operator to open a 2-way voice session with the panel. The only events used in 2-way voice are: TAMPER, EMERGENCY, and ALARM/RESTORE.

In general, the 2-Way Voice Behavior option is achieved via simple telephone communication. The CMS operator can listen, talk, or close communication by selecting **#1** (Listen), **#3** (Talk), or **#9** (Close communication) in the event the system calls when an alarm is sounded. The installer can set the following options:

- CMS 2-way voice Enable/Disable
- CMS 2-way voice Timeout

However, if the TROUBLE, BYPASS, and MISC events are reported, and the CMS is in LISTEN-IN mode, the CMS receptionist can hear the alarm/emergency voice message events, assuming they belong to the same CMS. On the other hand, if those events belong to another CMS, they are reported after the current CMS session report has finished.

*To set up 2-way voice behavior:*

1. In the *2WV SETUP* menu, select **CS 2WV ENABLE**.
2. Select **ENABLE**.
3. Select **CS 2WV TIMEOUT**.
4. Enter a timeout value that does not exceed 240 seconds.



It is recommended to use 180 seconds for a timeout value.

Note

5. Press **Exit** to return to Normal mode.

### 6.6.9 Number of Rings

Specify the number of rings before the system answers the line. By default, this option is set to 4 rings.

*To specify the number of rings:*

1. Using the numeric keypad, set the number of rings to between **1** and **15**.
2. Press **Enter** to confirm.

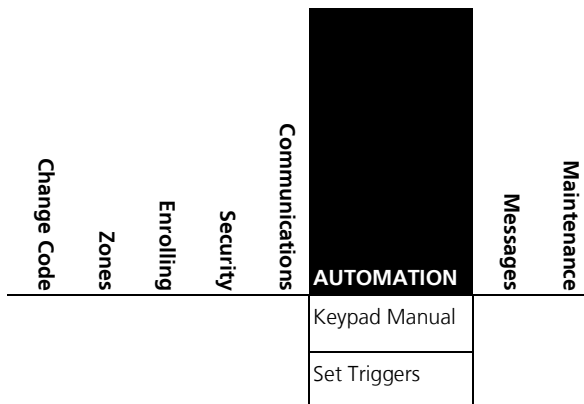
### 6.6.10 Select Region/Country

Select the region/country for the telephone line DAA, matching the time set for the system. By default, this option is set to **Other**.

*To select the region:*

1. Use the **Menu** button to select one of the available regions.
2. Press **Enter** to confirm.

### 6.7 Automation



The sixth submenu is *Automation*, which deals with the setup of various home automation options. Browse the desired automation related setting, as described in detail below, using the **Menu** button. Press the **Enter** button to access it.

#### 6.7.1 Keypad Manual

Enable or disable this option to determine whether the PGM output can be controlled by numeric keys 1 and 2 of the keypad as described in Section 2.2.1. This option is Enabled by default.

##### *To set up the keypad:*

1. Using the **Menu** button, **Enable** or **Disable** the option.
2. Press **Enter** to confirm your selection.

#### 6.7.2 Set Triggers

This option enables you to activate the PGMs using various events in an automated fashion. By default, no triggers are set.

##### *To set up triggers:*

1. Using the **Menu** button, select **PGM1** or **PGM2**, and press **Enter** to confirm.
2. For each of the PGMs, you can select the pulse time and triggers as described below:
  - a. **Pulse time** – Set the length of time for the device to stay on when a pulse type activation is selected. Using the numeric keypad, set the time from **1** to **99** seconds and press **Enter** to save.
  - b. Select the trigger type and parameters according to the following table:



Note

Use only one trigger for each PGM simultaneously.

Trigger	PGM Activation Options	Remarks
Arm Away	On, Off, Pulse, Ignore	
Arm Home	On, Off, Pulse, Ignore	
Disarm	On, Off, Pulse, Ignore	
Alarm	Enabled, Disabled	Go OFF when alarm stops
Panic	Pulse, Ignore	
Trouble	Pulse, Ignore	
AC Loss	Enabled, Disabled	ON when AC fails, OFF when AC returns
Remote Control	On, Off, Pulse, Trouble, Ignore	Relates to remote's panic button
Zone	On, Off, Pulse, Trouble, Ignore	Relates to zone open or detection

6.8 Messages

Change Code	Zones	Enrolling	Security	Communications	Automation	MESSAGES	Maintenance
						Keypad Mute	
						House Name	
						Custom Zones	

The seventh submenu is *Messages*, which deals with custom text and voice zone descriptions, personal messages between users, and message mute options. Browse the desired setting, as described in detail below, using the **Menu** button, press the **Enter** button to access it.

6.8.1 Keypad Mute

This option allows you to enable or disable the option to mute all the voice messages and beeps (except for trouble beeps, forced arming, enrollment and RF test of wireless devices) by numeric key 5 of the keypad as described in Section 2.2.1. By default, this option is **Disabled**.

*To set up keypad mute:*

1. Using the **Menu** button, **Enable** or **Disable** the option.
2. Press **Enter** to confirm your selection.

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### 6.8.2 House Name

This option enables you to type, record, and listen to the House Name as defined in the system.

#### *To set up and review the house name:*

1. In the *HOUSE NAME* menu, use the **Menu** button to locate the ENTER HOUSE NAME submenu.
  - a. Press **Enter** to access the submenu.  
Use the alphanumeric keypad to type the desired house name, use the pound key (#) to delete the last entered value.
  - b. Press **Enter** to confirm.
2. In the *HOUSE NAME* menu, use the **Menu** button to locate the ENTER TO RECORD submenu.
3. Press **Enter** to start and stop recording.
4. In the *HOUSE NAME* menu use the **Menu** button to locate the *ENTER TO LISTEN* submenu after a recording has been entered.
5. Press **Enter** to start and stop the message recorded.

### 6.8.3 Custom Zones

Enables you to record and listen to five voice and text custom zones descriptions and to toggle between them. On each zone, the user can simply edit the text by typing the keypad buttons. The text is limited to 16 characters.

#### *To record a custom zone message:*

1. Using the **Menu** button, select a **Custom Zone** and press **Enter** to confirm selection.
2. Using the **Menu** button, locate the ENTER ZONE NAME submenu.
  - Press **Enter** to access the submenu.  
Use the alphanumeric keypad to type the desired house name, use the pound key (#) to delete the last entered value.
  - Press **Enter** to confirm.
3. Use the **Menu** button to locate the ENTER TO RECORD submenu.
4. Press **Enter** to start and stop recording.
5. Repeat steps 1 through 3 for each of the 5 (five) custom zones.
6. Press **ENTER TO LISTEN**.  
This appears after all the string of recordings have been entered.
7. Press **Enter** to stop the listening to one zone and move to the next zone.  
This option is circular.



Note

Reset to factory settings does not delete these recordings.

6.9 Maintenance

Change Code	Zones	Enrolling	Security	Communications	Automation	Messages	
							MAINTENANCE
							Factory Default
							RF Test
							Test Indicators
							Test Sirens
							Test Devices

The eighth submenu is *Maintenance*, which describes the various system maintenance options. Browse the desired security related setting, as described in detail below, using the **Menu** button. Press the **Enter** button to access it.

6.9.1 Factory Defaults

This option allows you to restore the default factory settings for the system.

*To restore factory default:*

1. Press **Enter** to enter the submenu. Factory Defaults is the first submenu.
2. Press **Enter** and choose from the following four options using **Menu** to browse:
  - Regular – CENELEC status disabled: Returns the factory default settings without CENELEC settings
  - Cenelec – CENELEC status enabled: Returns the factory default settings with CENELEC settings
  - Regular and Delete RF devices – Returns the factory default settings without CENELEC settings and erases all RF devices previous identified by the unit
  - CENELEC and Delete RF devices – Returns the factory default settings with CENELEC settings and erases all RF devices previous identified by the unit
3. Press **Enter** to confirm.

## Installer Menu

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### 6.9.2 RF Test

RF testing checks the signal strength of all the wireless devices enrolled to the system. If a weak signal is detected, a repeater may be used to improve the link quality.

The system saves the most recent set of RF test results for uploading. The system clears the tests when running another RF test.

#### *To perform the test:*

1. Using the **Menu** button select the test you wish to perform, and press the **Enter** button to access the test.
2. Activate the RF unit to send a signal to the unit. The results can be *Strong*, *Normal* or *Low*. The available tests are:
  - Test Detectors
  - Test R. Controls
  - Test R. Siren
  - Test Keypads
  - Test Repeaters

#### *To view the results:*

1. For each of the tests, you can review the results by pressing the **Enter** button and then either the **Menu** button or the alphanumeric keys review all the units.
2. To exit the RF test mode you must press the **ESC** button.

### 6.9.3 Test Indicators

The indicators test checks the two indicator LEDs, power and status, located on the Panel.

#### *To test the indicators:*

After entering this menu, press **Enter**. The LEDs blink three times.

### 6.9.4 Sirens test

This test checks the different available sirens by activating them.

#### *To test the sirens:*

1. Select the siren you wish to test:
  - Local Siren
  - External siren
  - RF siren
    - Siren 1
    - Siren 2
    - Siren 3
    - Siren 4
2. Press **Enter** to activate the sounder.
3. Press **ESC** to stop the siren.

### 6.9.5 Test Devices

This test checks the PGMs connected to the system.

***To test the PGM devices:***

1. Select the PGM you wish to test:
  - PGM 1
  - PGM 2
2. Press **Enter** to activate the PGM for three seconds.


# 7. User Menu Structure

The user menu enables basic user settings such as Time & Date update and user codes edit.

Although the system supports up to twenty users, only one master user has access to all the settings.

*To enter the user menu:*

- 1. Press **Menu** until the screen displays **User**.
- 2. Press **Enter**.
- 3. Enter the master user code, the default code is 1234.



The system lockouts for 90 seconds after entering 5 wrong codes.

Select	To
Edit Master Code	Change the master code
User Codes	Specify user codes 1 through 20. If the user code exists, you can edit the code or delete the code.
Set Date & Time	Set the time, as specified in <b>Date &amp; Time Format</b> . Set the date, as specified in <b>Date &amp; Time Format</b> .
Date & Time Format	Specify the format in which the date is specified: 24 hour format or AM/PM. Specify the format in which the date is specified: DD-MM-YY or MM-DD-YY
Zone Bypass	Enable if manual bypass has not been set to Off by the Installer. It enables you to bypass and un-bypass selected zones.
Remote controls	Enroll remote controls (see Section 6.4.2)
Private Numbers	Specify up to three private telephone numbers.
PC Mode	Enable or disable PC connection and activity when GSM expansion is installed. Otherwise PC mode is enabled Automatically.

# 8. Reading the Event Log

The HLX-40 event log stores up to 250 events. When the log is full, the new incoming event replaces the oldest event.

Events are displayed in a chronological order, and include the date and time of their occurrence.

### *To access the Event Log:*

1. Access the event log by pressing **8** on the keypad when the system is in normal mode.
2. To read an event, enter the master code and press **Enter**.
3. Browse the even log using the **Menu** button or go directly to an event by entering the event number using the numeric keypad.
4. Press **Enter** to view the date and time of the occurrence.



Note

In EN-CENELEC standard menu, the event filter may be changed (default=10) so if an event reoccurs, the system only shows the event the defined number of times in the event log.

The event registration into log reoccurs after system disarming by the user.

# A. Sensor Placement and Helpful Reference Tables

## A.1 Default Zone Descriptions

<b>1</b>	Attic	<b>14</b>	Fire	<b>27</b>	Main Entrance
<b>2</b>	Back Door	<b>15</b>	Front Yard	<b>28</b>	Master Bathroom
<b>3</b>	Back Yard	<b>16</b>	Garage	<b>29</b>	Master Bedroom
<b>4</b>	Basement	<b>17</b>	Garage Door	<b>30</b>	Office
<b>5</b>	Bathroom	<b>18</b>	Gate	<b>31</b>	Storage Room
<b>6</b>	Bedroom	<b>19</b>	Guest Bathroom	<b>32</b>	Store
<b>7</b>	Child's Room	<b>20</b>	Guest Room	<b>33</b>	Upper Bathroom
<b>8</b>	Closet	<b>21</b>	Hall	<b>34</b>	Upstairs
<b>9</b>	Den	<b>22</b>	Kitchen	<b>35</b>	Vehicle Door
<b>10</b>	Dining Room	<b>23</b>	Laundry Room	<b>36</b>	Walkway
<b>11</b>	Downstairs	<b>24</b>	Library	<b>37</b>	Warehouse
<b>12</b>	Elevator	<b>25</b>	Living Room	<b>38</b>	Yard Door
<b>13</b>	Emergency	<b>26</b>	Lower Bathroom		

### A.2 Custom Zone Descriptions

Custom Zone	Description
Custom #1	
Custom #2	
Custom #3	
Custom #4	
Custom #5	

### A.3 Detector Deployment Plan

Zone No.	Zone Type	Description	Chime Yes/No	No Activity Zone	PGM 1	PGM 2	Remarks
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10.							
11.							
12.							
13.							
14.							

## Sensor Placement and Helpful Reference Tables

<b>Zone No.</b>	<b>Zone Type</b>	<b>Description</b>	<b>Chime Yes/No</b>	<b>No Activity Zone</b>	<b>PGM 1</b>	<b>PGM 2</b>	<b>Remarks</b>
15.							
16.							
17.							
18.							
19.							
20.							
21.							
22.							
23.							
24.							
25.							
26.							
27.							
28.							
29.							
30.							
31.							
32.							
33.							
34.							
35.							
36.							
37.							

## Sensor Placement and Helpful Reference Tables

Zone No.	Zone Type	Description	Chime Yes/No	No Activity Zone	PGM 1	PGM 2	Remarks
38.							
39.							
40.							

### A.4 Remote Control

No.	Holder Name	Normal Operation	PGM 1	PGM 2	Status Request
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					

### B. Reporting Codes

Table 8 provides a listing of the codes used to communicate with the CMS.

**Table 8: List of CID Codes**

<b>Programmable Feature Description</b>	<b>CID Code</b>
<b>Burglary Event</b> (Alarm for a zone)	E130
<b>Burglary Restore</b> (for a zone)	R130
<b>Fire Event</b> (Fire Alarm for a zone or from emergency button)	E110
<b>Fire Restore</b> (Fire Alarm for a zone or from emergency button)	R110
24 Hour zone Audible Alarm <b>Event</b>	E133
24 Hour zone Audible Alarm <b>Restore</b>	R133
<b>Wire Sensor Tamper Event</b> (Zone Tamper Alarm)	E144
<b>Wire Sensor Tamper Restore</b> (Zone Tamper Alarm)	R144
<b>RF Low Battery Event</b> (for RF zone)	E384
<b>RF Low Battery Restore</b> (for RF zone)	R384
<b>Loss of supervision – RF Alarm Event</b> (for a zone)	E381
<b>Loss of supervision – RF Restore</b> (for a zone)	R381
<b>Wireless Panic</b> Alarm Event From Remote Control	E120
<b>Wireless Panic</b> Alarm Restore From Remote Control	R120
<b>Sensor Trouble Event</b> (No Activity Alarm)	E380
<b>Sensor Trouble Restore</b> (No Activity Alarm)	R380
Duress Report Event	E121
Open Report Event (Disarm)	E401
Close Report Event (Arm Away)	R401
Partial Close Report Event (Arm Home)	R441
Cancel Event (Alarm Cancel Report)	E406
Silent Panic From Panel	E120
Audible Panic From Panel	E101
Illegal Code Alarm	E461
Quick Arm	R408
Forced Arm	R423
Auto Arm	R403
Auto Disarm	E403
Remote arm/disarm (Disarm)	R407
Remote arm/disarm (Arm)	E407
RF receiver Jam Detect Event	E344
RF receiver Jam Detect Restore	R344
Low system battery Event (Panel Low Battery)	E302

<b>Programmable Feature Description</b>	<b>CID Code</b>
Low system battery Restore (Panel Low Battery)	R302
AC Loss Event (Panel AC Failure)	E301
AC Loss Restore (Panel AC Failure)	R301
Line Failure	E351
Line Restore	R351
Swinger Trouble	E377
Swinger Restore	R377
Inaccurate Time Trouble	E616
Inaccurate Time Restore	R616
Power Supply Over Current	E312
Power Supply Over Current Restore	R312
Battery Missing	E311
Tamper Event (Panel Tamper)	E137
Tamper Restore (Panel Tamper)	R137
Failure to communicate Event (Communication Failure)	E354
Failure to communicate Restore (Communication Failure)	R354
Fire Zone Trouble Event	E373
Fire Zone Trouble Restore	R373
Fire Zone bypass Event	E571
Fire Zone bypass Restore	R571
24 H Zone bypass Event	E572
24 H Zone bypass Restore	R572
Burglar Zone bypass Event	E573
Burglar Zone bypass Restore	R573
Grouped Zone bypass Event	E574
Manual Test Report Event	E601
Periodic Test Report Event	E602
Listen in Follow	E606
Programming Mode Enter	E627
Programming Mode Exit	R628
Panel Shut Down	E308
Delete User or Device	E306
Panel No Activity Alarm	E382

\*This event is not sent by the panel to the dialer. Listen in Follow code is produced by the dialer according to current configuration:

- 2-way voice enable/disable
- 2-way voice period, Therefore there is no Index.

### C. Settings Requirements for CENELEC

<b>Quick Arm</b>	Enabled
<b>Jamming</b>	Enabled
<b>Tamper</b>	Enabled
<b>Low Battery</b>	Enabled
<b>AC Fail</b>	Enabled
<b>Comm Fail</b>	Enabled
<b>Line Fail</b>	Enabled
<b>Panic</b>	Enabled
<b>Supervision</b>	Enabled
<b>Memory Alarm</b>	Enabled
<b>System Status</b>	Enabled
<b>Arm Instant</b>	Enabled
<b>Event Filter</b>	3..10

## D. Declaration of Conformity

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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

### E. Limited Warranty

ROSSLARE ENTERPRISES LIMITED (ROSSLARE) TWO-YEAR LIMITED WARRANTY is applicable worldwide. This warranty supersedes any other warranty. ROSSLARE'S TWO-YEAR LIMITED WARRANTY is subject to the following conditions:

#### **WARRANTY**

Warranty of ROSSLARE'S products extends to the original purchaser (Customer) of the ROSSLARE product and is not transferable.

#### **PRODUCTS COVERED BY THIS WARRANTY AND DURATION**

ROSSLARE ENTERPRISES LTD. AND/OR SUBSIDIARIES (ROSSLARE) warrants the HLX-40 Advanced Wireless Intrusion System Panel Family to be free from defects in materials and assembly in the course of normal use and service. The warranty period commences with the date of shipment to the original purchaser and extends for a period of 2 years (24 months).

#### **WARRANTY REMEDY COVERAGE**

In the event of a breach of warranty, ROSSLARE will credit Customer with the price of the Product paid by Customer, provided that the warranty claim is delivered to ROSSLARE by the Customer during the warranty period in accordance with the terms of this warranty. Unless otherwise requested by a ROSSLARE representative, return of the failed product(s) is not immediately required.

If ROSSLARE has not contacted the Customer within a sixty (60) day holding period following the delivery of the warranty claim, Customer will not be required to return the failed product(s). All returned Product(s), as may be requested at ROSSLARE'S sole discretion, shall become the property of ROSSLARE.

To exercise the warranty, the user must contact ROSSLARE Enterprises Ltd. to obtain an RMA number after which, the product must be returned to the Manufacturer freight prepaid and insured.

In the event ROSSLARE chooses to perform a product evaluation within the sixty (60) day holding period and no defect is found, a minimum US\$ 50.00 or equivalent charge will be applied to each Product for labor required in the evaluation.

ROSSLARE will repair or replace, at its discretion, any product that under normal conditions of use and service proves to be defective in material or workmanship. No charge will be applied for labor or parts with respect to defects covered by this warranty, provided that the work is done by ROSSLARE or a ROSSLARE authorized service center.

### EXCLUSIONS AND LIMITATIONS

ROSSLARE shall not be responsible or liable for any damage or loss resulting from the operation or performance of any Product or any systems in which a Product is incorporated. This warranty shall not extend to any ancillary equipment not furnished by ROSSLARE, which is attached to or used in conjunction with a Product, nor to any Product that is used with any ancillary equipment, which is not furnished by ROSSLARE.

This warranty does not cover expenses incurred in the transportation, freight cost to the repair center, removal or reinstallation of the product, whether or not proven defective.

Specifically excluded from this warranty are any failures resulting from Customer's improper testing, operation, installation, or damage resulting from use of the Product in other than its normal and customary manner, or any maintenance, modification, alteration, or adjustment or any type of abuse, neglect, accident, misuse, improper operation, normal wear, defects or damage due to lightning or other electrical discharge. This warranty does not cover repair or replacement where normal use has exhausted the life of a part or instrument, or any modification or abuse of, or tampering with, the Product if Product disassembled or repaired in such a manner as to adversely affect performance or prevent adequate inspection and testing to verify any warranty claim.

ROSSLARE does not warrant the installation, maintenance, or service of the Product. Service life of the product is dependent upon the care it receives and the conditions under which it has to operate.

In no event shall ROSSLARE be liable for incidental or consequential damages.

### LIMITED WARRANTY TERMS

THIS WARRANTY SETS FORTH THE FULL EXTENT OF ROSSLARE'S WARRANTY.

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