Hunter-Pro 832/8144 & Captain 8

I n t r u d e r   A l a r m   S y s t e m s

User Guide ZA

FOR BETTER PROTECTION

Quick Reference

Key	Press PROG. **0** for 2 seconds, enter User code and press the key…	Press the key for 2 seconds…
ON/OFF **1**	Arm to full mode	One-key arming[1]
MEMO. **2**	Display the log	-
BYPASS **3**	Bypass zones for the next arming	-
HOME 1 **4**	Arm to "Home 1" mode	One-key arming to "Home 1" mode[1]
ZONE **5**	Display modes menu	Display "All Zones" for one minute
PHONES **6**	Set the telephone numbers	-
HOME 2 **7**	Arm to "Home 2" mode	One-key arming to "Home 2" mode[1]
CLOCK **8**	Set time and date	-
CODES **9**	Set user codes	-
CHIME *****	Set chime per zone	Turn ON/Off the chime
PROG. **0**	Set auto-arming by day and inactivity	-
RESET **#**	-	Reset smoke detectors. Press briefly: display armed partitions
END	-	Stop the keypad buzzer when beeping
SERVICE **NEXT**	Display the system's name & version	Display the service provider
TEST **BACK**	Initiate system tests	-
ENTR	-	Display the system's name & version
CHIME ***** + RESET **#**	Press for 2 seconds: generate Panic alarm	
ENTR + **END**	Press briefly: turn the keypad chime ON/OFF	

Factory default codes

Master: 5555
Technician: 1234

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[1] Must be enabled by the Installer

[2] The exit delay countdown can expire immediately as the final door is closed. Refer to the Installer

Table of Contents

1   Introduction

Congratulations on your purchase of the Hunter-Pro 832/8144 and Captain 8 Intruder Alarm Systems. Much care has been taken in developing these systems, to provide you with unprecedented peace of mind and security. The user-friendly menu with its advanced features will professionally help you to protect your premises.

We recommend reading this guide in its entirely in order to familiarize you with the system and take full advantage of its features.

To assure optimal safety and security, you should test your alarm system once every week. See section 12, on page 28 for details.

For any further questions, please contact your local PIMA distributor.

Up to date literature is available to download from our website at: www.pima-alarms.com

1.1   Hunter-Pro & Captain 8 mutual features

- Hybrid systems with hardwired and wireless zones
- Arming modes: Full, Home 1, Home 2
- Menu-driven LCD and graphic keypads, and cost-effective LED keypads
- Optional use of partitions for perimeter zones and separate locations
- Automatic arming option
- Various codes & access options including RFID tag/keychain and key fob
- Authorization settings per user
- Up to four phone numbers to call the Monitoring Station and four to the owner
- Optional disarming time frame per user
- Constant zone, battery and phone line testing
- Communication channels: phone, Long-range Radio, GSM, GPRS, Ethernet
- Various ways to arm and disarm the system: keypad, key switch, RFID tag/keychain, auto-arming
- Full wireless detectors supervision
- Optional alarm voice messages and listen in microphone
- Full log, part is non-volatile
- Various methods to prevent false alarms
- Various methods to prevent burglary setup

1.2   Hunter-Pro Series features

- 8 to 32/144 zones
- Up to 32/144 user codes and RFID tags
- Phone remote control;
- Various partitioning options:
    - Up to 16 partitions
    - Up to 8 subsystems

1.3   Captain 8 features

- 8-16 zones
- Up to 30 user codes & RFID tags
- Various partitioning options:
  - Up to 4 partitions and subsystems

1.4   Safety & security

Both the Hunter-Pro 832/8144 and Captain 8 systems have been registered in accordance with the EN60950 standard

We advise you the following:

- The alarm system as well as its wiring should be placed in a hidden and safe location, protected from rain or moisture.
- The alarm system may have hazards of electric shock and fire. Do not try to open the alarm system's case: dangerous high voltages are present inside it. Refer servicing to qualified personnel only.
- This alarm system should be used with 230VAC 50Hz, protected by anti-electric shock breaker. To prevent electric shocks and fire hazards, do NOT use any other power source.

1.5   Signs and conventions in this guide

☞	Press a key briefly
👆	Press a key for two seconds, until confirmation beep is sounded
⚠	**Warning**
📝	Note
#	In programming mode, enables ('+') or disables ('-') a parameter, erases a character

1.6   Codes

1.6.1   Master code

The Master code is a 4-6 digit super user code that has all the access authorizations.

To change the code, you must enter the codes menu with this code only.

⚠ **Replace the factory default Master code (5555), immediately after installation to prevent unauthorized and illegal operations.**

1.6.2   User codes

For every user you set a code, name and access authorizations. You can limit a user with a disarming time window.

The system reports and logs any action taken by the user together with its code.

1.6.3   Short code

A two-digit code, used only for arming

1.6.4   Duress code

The duress code is a 4-6 digit code for using in distress situations. When the system is armed and you are forced to disarm it, enter the duress code - the system will be disarmed, but in addition, a silent alarm will be sent to the Monitoring Station (if you are a subscriber) and the phones of the users.

1.7   How to enter the user menu

The user menu is where you set parameters such as time & date, user codes and user authorizations. To enter it, press (0) for two seconds and enter the Master code.

You can limit users from viewing parts of the menu - see "How to set user settings", on page 21 for details.

By default, when you enter a user code you are arming (or disarming) the alarm system. The Installer can program the system, so when you enter the code you enter the user menu. To arm the system this way, press one of the arming buttons from within the user menu.

1.8   The LCD keypad

The LCD keypad is designed for maximum simplicity and durability, and it presents a decorative design. The RXN-400 & RXN-410 models are identical, except for their screen size: the 410 has a larger one.

The LCD screen is made of two lines that show data regarding the system, such as time, events, faults and zone status.

- Up to eight addressable keypads can be connected to the system
- The message "Other Keypad in Use" is displayed when another keypad is in use, or when the system is remotely controlled
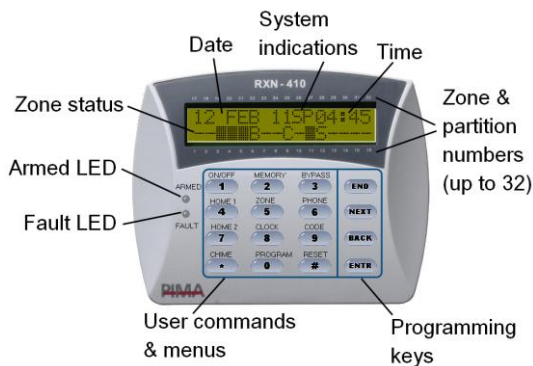

Figure 1.   The RXN-410 with the "Fast display" type

2   Key #1: Arming & Disarming

You can arm the alarm system in several ways:

1. Via the keypad
2. Automatically, in a pre-defined time
3. Using key fobs, key switches and RFID devices
4. In Hunter-Pro only: by the phone

2.1   How to arm the alarm system

Before arming the system, check the following:

Open zones: if a zone is open, the system cannot be armed, unless it is an exit delay zone.

Open zones are indicated as follows:

- In the "Fast zone" display type, no zone is indicated with a rectangle ▒
- In the "Scan open zones" display type, no zone is indicated with "OP" (open)

A fault occurs: if the Fault LED is flashing, check the LCD screen to see what the trouble condition is and call for service if needed. The system cannot be armed when something is faulty, unless programmed otherwise by the Installer.

2.1.1   With user or short code

To arm your system, enter the **Master code**, **user code** (for restrictions, see section 9.4, on page 21) or **short code** (a code programmed by the Installer. See section 9.12, on page 25).

If no 24-hour zone is open and no fault exist, the exit delay countdown starts with the buzzer of the keypad sounding beeps and the red ARMED LED flashing. You can now exit the premise.

When the exit delay expires[2], the system becomes armed: the green ARMED LED stops to flash and stays on, and the message "System Armed" is displayed briefly.

2.1.1.1   Exit and entry delay times

The exit and entry delay times, which allow entering and exiting the premise without activating the alarm, are programmed by the Installer. The Installer can also program two different entry delays to different zones.

2.1.2   With fast (one-key) arming

To arm your system using one key[3], press ⬭ ON/OFF **1** until the exit delay starts.

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[2] The exit delay countdown can expire immediately as the final door is closed. Refer to the Installer

[3] One-key ("fast") arming must be enabled by the Installer

2.2   How to disarm the alarm system

To disarm the system, enter the **Master code**, or **user code** (for restrictions, see section 9.4, on page 21). The Short code cannot be used to disarm the system.

If an "Access denied" message is displayed, the user may be trying to disarm it outside its "Disarming time frame". See section 9.5, on page 22 for details.

2.2.1   Using the Duress code

The Duress code can be used when you are forced to disarm the system by an intruder. It is a <u>disarming</u> code only.

When you enter the Duress code, you disarm the system, which sends a duress alarm to the Monitoring Station (if you are subscribed to) and the private phones.

To set the code, refer to section 9.3, on page 21.

3   Key #2: The Memory Log

The system keeps a log of various events, like alarms, arming & disarming, bypassing zones, and faults. Each event is kept with a time stamp and the user that is associated with, when relevant.

Part of the log is kept by the power of the backup battery, during AC power failure.

A log entry is made of two lines:

- The upper line shows the entry number and the logging time stamp
- The second line shows the event details.

To view the memory log, do the following:

1.   Enter the user menu and press **2** (MEMO.)   `Show: All Events-0`

2.   Press **ENTR** to view the log OR

3.   Press **NEXT** (SERVICE) to view only the faults `Show: Faults Only-1` OR

4.   Press **NEXT** (SERVICE) to view only zone alarms `Show: Zone Alarms-2` OR

5.   Press **NEXT** (SERVICE) to view only arming and disarming events `Show: Arming/Dis.-3`

3.1   Log view options

The log has four options to display the events:

- All the events-0: all the log entries are displayed in one list
- Faults only-1
- Zone alarms-2
- Arming/disarming-3

Press the corresponding number to view each option.

Log entry example

"Burglary" alarm in zone #4, named "Kitchen" - the two screens are displayed intermittently.

Serial no. `(29)  1 SEP 21:20` / `Burgl Alarm    4` ~ `(29)  1 SEP 21:20` / `Kitchen`

Logging time

Event type   Zone no.   Zone name

4   Key #3: How to Bypass Zones

You use the zone bypass option when you need to enter a part of the protected area while the system is armed. You can bypass zones only temporarily and only when the system is disarmed: a zone can be bypassed only for one arming and it returns to normal mode when the system is disarmed again.
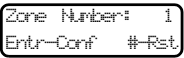
The letter "B" in "Fast zone display" mode indicates a bypassed zone.

A service technician can bypass a zone permanently, in the case the zone is no longer needs to be protected.

- **When you bypass a zone, you reduce the security protection of your premise: a bypassed zone does not activate the alarm when violated!**

- **Use this feature only if there is no other way, and only for the shortest possible time**

- **If need to bypass a faulty zone, call a service technician**

To bypass a zone for the next arming, do the following:

1.   Enter the user menu and press [BYPASS 3]

```
Zone Number:    1
Entr-Conf   #-Rst
```

2.   Press a zone number

3.   Press **ENTR** to confirm. The zone is bypassed **immediately** and the message "Bypassed zone" is displayed.

4.   To cancel the bypassing of a zone, press **#**. The message "Activated zone" is displayed.

As a precaution, a zone can be bypassed only for a limited time, before returns to normal mode.

Example for bypassing a zone

```
Bypassed Zone
Back door   -14
```
Zone name   Zone number

Example for resetting a bypassed zone

```
Activated Zone
Back door   -14
```
Zone name   Zone number

5   Keys #4, #7: "HOME 1" and "HOME 2" Arming Modes

"HOME 1" and "HOME 2" are partial arming modes, in which only some zones are armed, while others are not: the armed zones will sound the alarm if opened, while the disarmed zones can be occupied at the same time.

Each HOME mode includes some zones, set by the Installer.

Arming to the Home modes is like arming to full mode, and there is fast (one-key) arming option.

To arm to HOME mode, do the following:

1.   Enter the user menu

1.   Press HOME 1 (4) for "HOME 1", or HOME 2 (7) for "HOME 2"
```
Home 1 Arming..
Exit Delay 60
```

2.   Enter Master, user or Short code
```
Home 1 Arming..
Exit Delay 60
```

To arm to HOME mode with the fast arming option[4], do the following:

1.   Press and hold key HOME 1 (4) for "HOME 1", or HOME 2 (7) for "HOME 2"
```
For HOME1 Arming
Enter Code
```

2.   Enter Master, user or Short code
```
Home 1 Arming..
Exit Delay 60
```

> The exit delay for on the two HOME modes can be cancelled by the Installer

---

[4] Fast arming is enabled by the Installer

6   Key #5: Display Types

Your keypad has few options for displaying information on zones, alarms, faults etc. There are two basic displaying types: "Fast display" and "Scan open zones".

The other types on the menu, except "Disable zone displaying" display various information for a minute, before they return to one of the basic types.

To enter the "Display Type" menu, press the Master code and (ZONE 5) ┌──────────────────┐
                                                                      │Display Type: │
                                                                      │Fast Zn. Display │
                                                                      └──────────────────┘

To view the other types, press **NEXT**. The types are Scan open zones, Disable zone displaying, All zones, Bypassed zones, Soaked zone, Chime zones, All zone status, and Show partition names.

6.1   Fast zone display

This display type is best used if your system has up to 32 zones. Each line displays 16 zones.

If you have up to 16 zones, the date and other information is displayed on the first line, and the status of the zones is displayed on second line (see the next figure). Letters and signs represent the status. If you have more than 16 zones, they will all be displayed in the same screen.

The numbers imprinted above and under the LCD screen are the zone numbers.
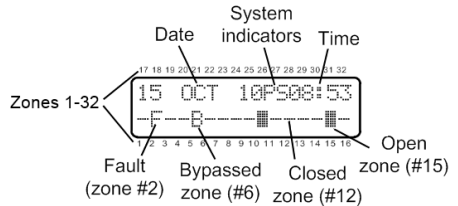
Figure 1.   Fast Zone mode with 16 zones

6.1.1   System indicators

The letters between the time and the date are system indicators. See the next table for details.

Indicator	Description
P	The system is communicating or testing the phone line
T	The system is communicating over the radio
R	The Relay is active (in Hunter-Pro only)
S	The Siren is active

6.1.2   Zone indicators
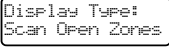
The zone status indicators are listed the next table:

Indicator	Description
–	The zone is closed (normal)
■	Open zone. If the zone has more than one status (e.g., it is open and alarming), the different indications are displayed intermittently
A	Alarmed zone: the zone was violated the last time the system was armed, or is alarming now
B	Bypassed zone
C	Chime zone
F	Faulty zone or a tamper switch in this zone is open

Indicator	Description
L	Low battery in a wireless detector
O	24-hour zone is open or a partition (a pre-defined group of zones) is armed. Press `#` to display the partitions.
S	Electric short in the wires of the zone (this may indicate on burglary setup!)
T	The zone is in soak (test) mode
V	A wireless detector is not responding

6.2   Scan Open Zones display type

In this display type, information on open zones, faults and alarms is automatically scrolled through the screen. To view the Scan Open Zones type

1.   Enter the user menu and press `5`

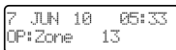2.   Press **NEXT**
```
Display Type:
Scan Open Zones
```

3.   Press **ENTR**
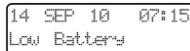
In the main screen, each zone is indicated with two letters, as detailed in the next table.

Letters	Description
OP	Open zone
AL	The zone alarmed the last time the system was armed, or is alarming now.
BP	Bypassed zone
FL	Zone fault - the zone wires are cut
SH	Zone is short
SV	Zone supervision is lost
LB	Low battery in wireless zone
AM	Zone is anti-masked

Examples

```
7 JUN 10   05:33
OP:Zone   13
```
Zone #13 is open

```
14 SEP 10   07:15
Low Battery
```
System battery is low

6.3   Disable Zone display type

This is a version of the Scan Open Zones display type, in which open zones are ignored, and only faults and alarms are scrolled through the screen. To view this type:

1.   Enter the user menu

2.   Press `5` **NEXT**x2
```
Display Type:
Disable Zn. Disp
```

3.   Press **ENTR**. The main screen is displayed with the Scan Open Zones display type, showing only faults and alarms.

6.4 Other display types

6.4.1 All Zones

Use this one-minute display type to view the zone characteristics - its name, partition and type. To view the All Zones type:

1. Enter the user menu and press **5**

2. Press **NEXT** x3
```
Display Type:
All Zones
```

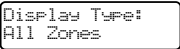3. Press **ENTR** to view the details

4. Press **NEXT** to scroll through all the zones, OR

5. Press a zone number

6.4.2 Bypassed Zones
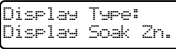
Use this one-minute display type to view all bypassed zones - permanently (by the Installer) and temporarily. To view the Bypassed Zones type:

1. Enter the user menu and press **5** **NEXT** x4
```
Display Type:
Display Bypass Z
```

2. Press **NEXT** to scroll through the bypassed zones

3. Press **ENTR** to view the details of the selected zone

6.4.3 Soak Test Zones

A service technician can put a zone into soak test, if the zone generates false alarms. The max period for soak test is one week, after which the zone automatically returns to normal mode.

To view the soak test zones:

1. Enter the user menu and press **5** **NEXT** x5
```
Display Type:
Display Soak Zn.
```

2. Press **NEXT** to scroll through the soak test zones

3. Press **ENTR** to view the details of the selected zone

6.4.4 Chime Zones

To view the chime zones (see section 11, on page 27 for details):

1. Enter the user menu and press **5** **NEXT** x6
```
Display Type:
Display Chime Zn
```

2. Press **NEXT** to scroll through the chime zones

3. Press **ENTR** to view the details of the selected zone

6.4.5   All Zones Status[5]

This is a version of the "Fast Display" type, in which the status of all the zones is conveniently displayed in 10-zone lines. See section 6.1, on page 13 for details on the zone indicators.

To view the All Zones Status type:

```
Display Type:
All Zones Status
```
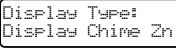
1.   Enter the user menu and press (5) (NEXT)x7

2.   Press (NEXT) to scroll through the next zones

Example

```
C---■■■■CB---  1->10
-F---S■-----  11->20
```

In this screenshot, the status of zones 1 - 10 and 11 - 20 is displayed. The zone status is as follows:

Zone	Status
1, 7, 22:	chime zone
2-3, 9-10:	closed zones
4-6:	open zones
8, 34:	bypassed zone
12:	faulty zone
15:	zone activated or is activating the siren

6.4.6   Show partition names

If your alarm system is configured with partitions (see section 12, on page 28), each keypad is allocated to a partition (or more). Use this display type to show the name of this partition on the main screen, in the Scan Open Zone type only. To stop showing it, repeat the next process.

To show the partition of the current keypad:

1.   Make sure the current display type is Scan Open Zones (see section 6.2, on page 14)

```
Display Type:
Show Part Name
```

2.   Enter the user menu and press (5) (NEXT)x8

3.   Press (ENTR)

---

[5] Best used in Hunter-Pro systems with more than 16 zones

7   Key #6: Phone numbers, SMS settings and Dialer test

Key #6 has three sub-menus. The menus and their use are:

1. **Edit Numbers**: set the contact numbers that will receive audible messages on alarms and other events over the phone
2. **SMS Settings**: set which of the contacts will receive text messages on alarms and other events, instead of phone messages
3. **Test dialer**: test the validity of the phones you have programmed
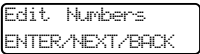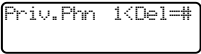
7.1   Edit numbers

The Hunter-Pro Series and Captain 8 alarm systems have an integrated phone dialer, which can call up to four subscribers and sound a hi-lo tone, if alarm or fault occur. A pre-recorded voice message can also be sounded[6]. The Installer can set which alarm types will be reported to you.

The dialer attempts to call all the numbers twice - when a call is answered, the system sounds the alarm tone. The dialer will stop dialing, when:

1. The system is disarmed
2. All numbers were dialed, each number twice
3. In Hunter-Pro Series only: a stop dialing phone command is received

To set a phone number:

1. Enter the user menu and press `6`

   ```
   Edit Numbers
   ENTER/NEXT/BACK
   ```

2. Press `ENTR`

   ```
   Priv.Phn 1<Del=#
   ```

3. Enter a phone number
4. To use the following characters, press `*` repeatedly: "+", "*", "#" and "P" for one second delay (if the call is made through a phone system)
5. Press `ENTR` to save and set the next number

7.2   SMS Settings

Text messages are an alternative way for you to receive messages on alarms and faults. A phone number that is set to receive SMS messages will not receive audible alarms. The Installer can also program the system to send you reports on arming and disarming, by text messages.

> **You should be aware, that SMS trechnology is far less reliable than phone system. Messages can be delayed by the service provider due to network limitations.**

The 1-4 numbers stand for the same programmed phone numbers. Unlike in the audible alarms, SMS messages are sent to each number only once, because SMSs are confirmed by the operator.

To send text messages, you have to purchase the SMS-100 module (unless you already have the GSM-200 cellular module).

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[6] This feature requires the purchasing of the VU-20 voice module
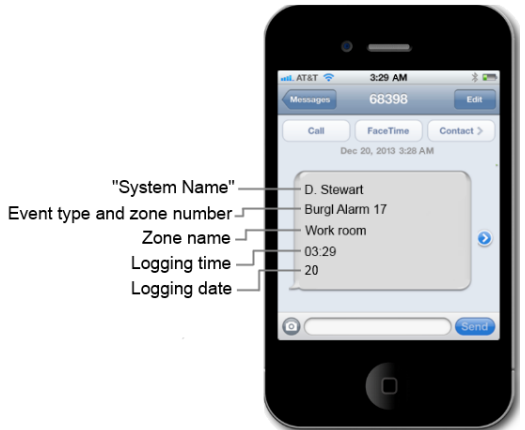
To set the numbers to receive SMS messages:

1.   Enter the user menu and press (6) **(NEXT)**
```
SMS Settings
ENTER/NEXT/BACK
```

2.   Press **(ENTR)**
```
1234
----- SMS Options
```

3.   Select the desired numbers (press **(NEXT)**) and press (#) [RESET] to set a number to "+"

4.   Press **(ENTR)**

Example

Phone #2 will receive SMS messages instead of audible alarms
```
1234
-+-- SMS Options
```

7.2.1   Example for SMS message

The details in the SMS message are taken mostly from the system log - only the System Name is set by the Installer. The time and date in the message indicate when the reported event was registered in the log, and not when the message was sent.

"System Name" —— D. Stewart
Event type and zone number —— Burgl Alarm 17
Zone name —— Work room
Logging time —— 03:29
Logging date —— 20

7.3   Dialer test

Use the Dialer test menu to check if the phone numbers are programmed correctly. When you press a number (1-4), the system will dial that number. If a call is not received, check the number - if it is correct, call a service technician. To test the dialer:

1.   Enter the user menu and press (6) **(NEXT)**x2
```
Test Dialer
Select T.No.  1-4
```

2.   Press a number to test the corresponding phone number (1-4) (1) [ON/OFF]
```
Testing Line..!!
```
```
Dialing...
5554444
```
...
```
Sending...
```
...
```
Finished OK!
```

8   Key #8: Time and Date

You should make sure that the system's Time and Date are accurate at all times, for maintaining a detailed log and for functions such as user disarming window.

If the clock is not set, a "Clock Not Set" message is displayed and the keypad sounds fault beeps.

To set the time:

1.   Enter the user menu and press **CLOCK 8** `Hour` `00:00`

2.   Enter the hour in 24-hour format, hh:mm

3.   Press **ENTR** `Day  Month  Year` `01     01     12`

4.   Enter the date in dd:mm:yy format

5.   Press **NEXT** or **BACK** to correct data

6.   Press **ENTR**

9   Key #9: Codes

All codes in the Hunter-Pro Series and Captain 8 systems, except Short code, are made of 4-6 digits. Duplicate codes or codes that start with the two Short code digits are not allowed.

Codes are concealed with asterisks - you cannot view or restore them.

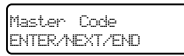See section 1.6, on page 6 for more details.

9.1   Master code
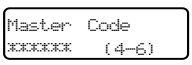
⚠️ **You should change the default Master code (5555) <u>immediately</u> after installation (see how in this section)**

9.1.1   How to change the Master code

To change the Master code, you must enter the User menu with the Master code. If you use a User code to enter the User menu, the Master Code menu is not displayed.
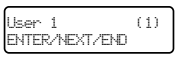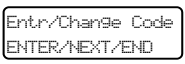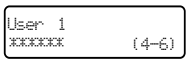
To change the Master code:

1.   Enter the **Master Code** and press **CODES 9**
```
Master Code
ENTER/NEXT/END
```

2.   Press **ENTR**
```
Master Code
****** (4-6)
```

3.   Enter 4-6 digits code

4.   Press **ENTR**

9.2   User codes

9.2.1   How to set new or change a user code

To set a new code or change one, do the following:

1.   Enter the user menu and press **CODES 9** **NEXT**
```
User Codes
ENTER/NEXT/END
```

2.   Press **ENTR**
```
User 1       (1)
ENTER/NEXT/END
```

3.   Enter a user no. and press **ENTR**
```
Entr/Change Code
ENTER/NEXT/END
```

4.   Press **ENTR**
```
User 1
******     (4-6)
```

5.   Enter 4-6 digits code

6.   Press **ENTR**
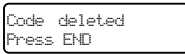
📝 An asterisk (*) to the right of the user name indicates that the user is assign with a code. For example, "Linda" is user #16 and has a code:
```
Linda   (16 )  *
ENTER/NEXT/END
```
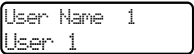
9.2.2   How to delete a user code

To set a new code or change one, do the following:

1.   Enter the user menu and press **9** (CODES) **NEXT**

2.   Enter a user no. and press **ENTR**

3.   Press **NEXT**
```
Delete Code
ENTER/NEXT/END
```

4.   To delete the code press **ENTR**
```
Code deleted
Press END
```
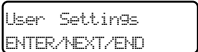
5.   Press **END**

9.3   How to set a user name

To set a name for a user, do the following:

1.   Enter the user menu and press **9** (CODES) **NEXT**

2.   Enter a user no. and press **ENTR**

3.   Press **NEXT** x2
```
User Name
ENTER/NEXT/END
```

4.   Press **ENTR**
```
User Name   1
User 1
```

5.   Enter up to 8-character user name.

6.   Press **ENTR**

9.4   How to set user settings

The user settings determine the sub-menus that the user will be allowed to see and change, and what data will he receive from the system.

1.   Enter the user menu and press **9** (CODES) **NEXT**

2.   Enter a user no. and press **ENTR**

3.   Press **NEXT** x3
```
User Settings
ENTER/NEXT/END
```

4.   Press **ENTR**
```
UTCMBKAORW
++++++-+---   1
```
. See the next table

5.   Use the **#** (RESET) key to allow/forbidden an action by setting it to "+" or "-" (toggle)

6.   Press **NEXT**/**BACK** to move the cursor left and right

7.   Press **ENTR** to save

Each letter represents an action. The letters are:

Letter	Action	Description
U	Code Programming	The user can set/change user codes
T	Tel. Programming	The user can set/change phone numbers
C	Date Programming	The user can set/change time and date
M	Memory view	The user can view the memory log
B	Zone Bypass	The user can bypass zones (temporary)
K	Use any Keypad	The user can use any keypad, regardless of the partitions to which the keypad is assigned
A	Auto-arming Prog	The user can set or change the auto-arming time
O	OP/CL Report-SMS	The user will receive arming/disarming reports by SMS
R	Remote control	In Hunter-Pro Series only: the user can control the system by the phone
W	RFID tag + Code	The user will have to enter its code, when it disarms the system with an RFID device
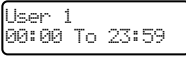
> When a user tries to enter a sub-menu it is not allowed to access, an "Access Denied" message is displayed

9.5   How to set user disarming window

A user can be restricted from disarming the system outside a time window. If that user will try to disarm the system outside its time window, it will be denied with the message "Access Denied! Press END".

To set a time window per user, do the following:

1. Enter the user menu and press **9** (CODES) **NEXT**

2. Enter a user no. and press **ENTR**

3. Press **NEXT** x4
    ```
    Disarm Window
    ENTER/NEXT/END
    ```

4. Press **ENTR**
    ```
    User 1
    00:00 To 23:59
    ```

5. Enter the start and end time of the time window, in the following format: hh:mm

6. Press **ENTR** to save

To correct data, press **NEXT** / **BACK**

Example

The user "Karen D." can disarm the system only between 07:30-09:30 (7:30-9:30 AM):

```
Karen D.
07:30 To 09:30
```
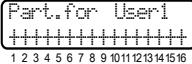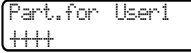
9.6   How to set user partitions

If the alarm system uses partitions (see section 12, on page 28 for details about partitions), every user can be assigning to one or more partitions. When a user is assigned to a partition, it can only operate the alarm system with keypads that are assigned to the same partition.

The User Partitions screen is made of a set of the partitions, indicated with "+" or "-", to indicate to which partition the user is assigned. The numbers imprinted bellow the LCD screen, are used here for the numbers of the partition (up to 16 partitions in Hunter-Pro Series, and 4 in Captain 8).

You can allow a user to operate the alarm system from any keypad (regardless of its partitions) - see parameter "K" in the "User Settings" menu (section 9.4, on page 21).

To set the user partitions, do the following:

1.   Enter the user menu and press **9** (CODES) **NEXT**

2.   Enter a user no. and press **ENTR**

3.   Press **NEXT** x5

```
Partitioning
ENTER/NEXT/END
```

4.   Press **ENTR** : in Hunter-Pro Series

```
Part.for  User1
++++++++++++++++
1 2 3 4 5 6 7 8 9 1011121314 1516
```
, in Captain 8
```
Part.for  User1
++++
1 2 3 4 5 6 7 8 9 1011121314 1516
```

5.   To limit a user to a certain partition, press **NEXT** or **BACK** to move to all other partitions and set them to "-"

6.   Press **ENTR** to save

Example

```
Part.for  User12
-++---
1 2 3 4 5 6 7 8 9 1011121314 1516
```
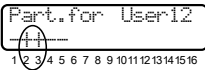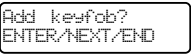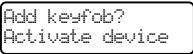
This alarm system has five partitions. User #12 is assigned to partitions #2 and #3. The user cannot operate the system from partitions #1, #4 and #5.

9.7   How to add a key fob to a user[7]

You can assign a key fob to a user. The key fob allows arming and disarming the alarm system, and some other operations. The system logs any action the user takes using the key fob. For more details, see section 14.1, on page 31.

To add (assign) a key fob to a user:

1.   Enter the user menu and press **9** (CODES) **NEXT**

2.   Enter a user no. and press **ENTR**

3.   Press **NEXT** x6
```
Add  keyfob?
ENTER/NEXT/END
```

4.   Press **ENTR**
```
Add  keyfob?
Activate device
```

---

[7] You must purchase the IO-WN wireless receiver to use key fobs

5. Press one of the buttons on the key fob. When the control panel receives the signal, it

```
Device added!
Press END
```

acknowledges it:

6. Press **END**

The letter "K" in the user code screen indicates that the user has a key fob assigned to it. For

```
Martha   (15 )K*
ENTER/NEXT/END
```

example, "Martha" is assigned with a key fob:

9.8   How to delete a key fob

To delete a key fob that is assign to a user, do the following:

1. Enter the user menu and press **9** (CODES) **NEXT**

2. Enter a user no. and press **ENTR**

```
Delete keyfob?
ENTER/NEXT/END
```

3. Press **NEXT** x7

```
Delete keyfob?        Device deleted!
Please wait..         Press END
```

4. Press **ENTR** .....

5. Press **END**

9.9   How to add RFID device to user

RFID (Radio-frequency identification) devices are used for arming and disarming the alarm system.
To use them, you will need to purchase the RD-200 RFID module.

RFID is a short distance technology: you need to bring the RFID device close to the reading
device briefly, to perform the action.

To add (assign) a key fob to a user:

1. Enter the user menu and press **9** (CODES) **NEXT**

2. Enter a user no. and press **ENTR**

```
Add RFID tag?
ENTER/NEXT/END
```

3. Press **NEXT** x8

```
Pls. Attach tag
```

4. Press **ENTR**

5. Bring the RFID device (keychain or tag) near the left side of the RFID
    keypad (where the RFID reader is located inside), until a confirmation

```
TAG Received!
   Press END
```

    message is displayed

6. Press **END**

The letter "A" in the user code screen indicates that an RFID device is assigned to that user. For

```
Tina    (1  )A*
ENTER/NEXT/END
```

example,

You can make the user enter its code, when it disarms the system using an RFID device - see parameter "W" in section 9.4, on page 21.

9.10   How to delete RFID device

To delete an RFID device that is assign to a user, do the following:
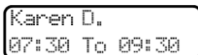
1.   Enter the user menu and press **9** (CODES) **NEXT**

2.   Enter a user no. and press **ENTR**

3.   Press **NEXT** x9
```
Delete TAG ?
ENTER/NEXT/END
```

4.   Press **ENTR**
```
Tag  Removed!
Press END
```

5.   Press **END**

9.11   How to set the Duress code

For details on the Duress code, see section 2.2.1, on page 9.

To set the code, do the following:

1.   Enter the user menu and press **9** (CODES) **NEXT** X2
```
Duress  Code
ENTER/NEXT/END
```

2.   Press **ENTR**
```
Duress  Code
******    (4-6)
```

3.   Enter a 4-6 digit code

4.   Press **ENTR** to save

> Hint: you can use your user code as the duress code, only switch around the two last digits

9.12   How to set the Short code

The Short code is a 2-digit <u>arming only</u> code. When you enter the code, the Exit delay starts and the alarm system is armed. To set the Short code:
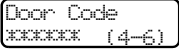
1.   Enter the user menu and press **9** (CODES) **NEXT** X3
```
Short Code
ENTER/NEXT/END
```

2.   Press **ENTR**
```
Short Code
**
```

3.   Enter a 2 digit code

4.   Press **ENTR** to save

9.13   How to set the Door code

The door code is an activation code, mainly used for opening electric doors and gates. To set the code:

1.   Enter the user menu and press   [9 CODES]   [NEXT]   X2 | Door Code / ENTER/NEXT/END |

2.   Press   [ENTR] | Door Code / ****** (4-6) |

3.   Enter a 4-6 digit code

4.   Press   [ENTR]   to save

10   Key #0: Auto Arming
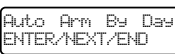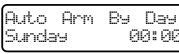
The Hunter-Pro Series and Captain 8 alarm systems have two ways be armed automatically: per day, or after a period of time in which there is no detection of one of the detectors.

When the auto arming time is arriving, a 45-second pre-delay starts: the keypad will sound 2-beep alerts and the green LED will flash. After that, the normal exit delay will start and then the full system will be armed[8]. If partitions are in use, an X above the partition number is displayed.

The Installer can set the system, so auto arming will arm the system to "Home 1" mode instead of full. To set the auto arming, do the following:

10.1   How to set auto arming by day

To set the auto arming by day, do the following

1.   Enter the user menu and press   [0 PROG.] | Auto Arm By Day / ENTER/NEXT/END |

2.   Press   [ENTR] | Auto Arm By Day / Sunday   00:00 |

3.   To select a different day, press   [ENTR]   repeatedly

4.   Enter the auto arming time in hh:mm format

5.   Press   [ENTR]   to save

6.   Press   [END]   to exit

10.2   How to set inactivity (no detection) auto arming
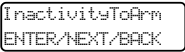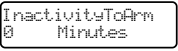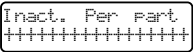
Inactivity auto arming is a feature to make sure the premise will be secured, even if the alarm system was not armed by the last person who evacuated it.

You set inactivity (no detection) auto arming per partition. This gives you the flexibility to auto arm some partitions, while leaving others disarmed. If you do not use partitions set only partition #1.

---

[8] In system with partitions, only those assigned to the keypad will be armed.

When Inactivity to Arming time is arriving, a 45-second pre-delay starts: the keypad will sound 2-beep alerts and the green LED will flash. After that, the normal exit delay will start and then the full system will be armed[9]. If partitions are in use, an X above the partition number is displayed.

To set inactivity auto arming, do the following:

1. Enter the user menu and press **0** (PROG.) **NEXT**
    ```
    InactivityToArm
    ENTER/NEXT/BACK
    ```
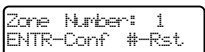
2. Press **ENTR**
    ```
    InactivityToArm
    0    Minutes
    ```

3. Enter inactivity time in minutes (up to 250)

4. Press **ENTR**
    ```
    Inact. Per part
    ++++++++++++++++
    ```

5. Leave the desired auto arming partitions with the "+" sign. Change to "-" (press **#** (RESET)) the partitions that will not be auto armed. Press **NEXT** or **BACK** to move right and left

6. Press **ENTR** to save

11   Key #: Chime

When you open a chime zone while the alarm system is disarmed, the keypad buzzer sounds a series of beeps. This feature is helpful with small children and in shops, where you want to be alert if a door or window is opened.

The letter "C" in the "Fast zone" display type, indicates on chime zones.

To set the chime zone, do the following:

1. Enter the user menu and press ***** (CHIME)
    ```
    Zone Number: 1
    ENTR-Conf  #-Rst
    ```

2. Press a zone number

3. Press **ENTR** to confirm. A verification message, "Chime ON" is displayed

4. To cancel a chime zone, press **#**. A verification message, "Chime OFF" is displayed
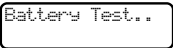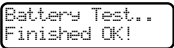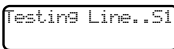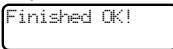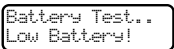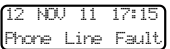
When you press and hold the ***** (CHIME) key for 2 sec, you can turn on and off (toggle) the chime feature to all the chime zones

---

[9] In system with partitions, only those assigned to the keypad will be armed.

12   key BACK: Manual System Tests

The system constantly tests the backup battery, the AC and the phone line. If your alarm system uses Ethernet or GPRS communication, additional test screens are displayed.

You can perform a manual test too. To perform a test:

1.   Enter the user menu and press **BACK** `Battery Test..` … `Battery Test.. Finished OK!` …
     `Testing Line..S1` … `Finished OK!`

2.   If the test fails, the following messages appear: `Battery Test.. Low Battery!` and/or `12 NOV 11 17:15 Phone Line Fault`

13   Partitions

A partition is a way to divide the premise to subsets of zones, for example, a floor, an office, and perimeter detectors. A partition can be armed separately, while other partitions are not. Users can be assigned to partitions (with the same user code) - they will be able to operate the system only via keypads that are assigned to the same partitions, and control only the zones that are assigned to these partitions.

Keypads that are assigned to partitions, display only the zones that are assigned to the same partitions.

There can be up to 16 partitions in Hunter-Pro Series and 4 in Captain 8.

13.1   Examples

13.1.1   Example A: 2 partitions, one keypad

Figure 2.   Partitions - example A[10]

In this example, a house is divided into 2 partitions, each occupies a separate floor. One keypad controls the two partitions, by assigning the keypad to partitions #1 and #2 (by the Installer).

13.1.2   Example B: 2 partitions, 2 keypads

Figure 3.   Partitions - Example B

In this example, a two-floor house is divided into 2 partitions, each occupies a separate floor. Two keypads, each assigned to a different partition, control the partitions. The users can be assigned to one partition only, or be assigned to both.

---

[10]   Published under Creative Commons license (source: http://www.flickr.com/photos/axiomestates/3081558445/)

13.1.3 Example C: offices/shops
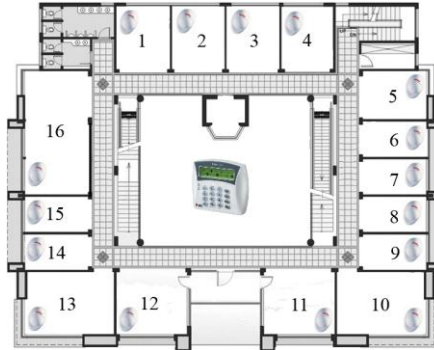
Figure 4.   Partitions - Example D

This is an example for office or shop floor. Each office/shop is assigned to a partition. The whole floor can be controlled by one keypad, with each occupant having a separate user code, remote control, key switch and RFID tag.

The keypad can display the status of all partitions, though the users will only be able to control their partition.

13.1.4 Armed partitions display

Armed partitions are displayed with "X", above the partition number.
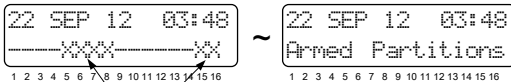
14   Other topics

14.1   Arming with key switch and key fob

You can arm your alarm system using key switches and key fobs. A key switch is used in businesses mostly. To use key fobs you must purchase the I/O-WN wireless module, that supports up to 24 key fobs.

14.1.1   MCT-234 key fob
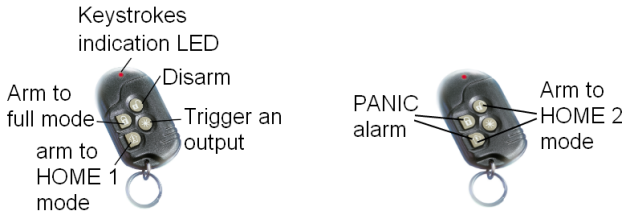
Figure 5.   The MCT-234 key fob

The Visonic MCT-234 key fob has four push buttons, described in the next table:

Button	Action
	Arm to full mode
	Arm to "Home 1" mode
+	Arm to "Home 2" mode
	Disarm
+	Send Panic alarm
	Activate a device (gate, spotlight, etc.)

14.2   How to enable remote programming (upload)

Your alarm system can be programmed over the phone or the network, by a service technician. For security reasons, the technician must have your approval to do it.

To approve it when asked, enter the Master code and press **ENTR** **ENTR**

14.3   How to enter characters

Characters are entered in the Hunter-Pro Series and Captain 8 in the same way as in cell phones. To enter more than one character using the same key, wait 2 seconds between each keystroke. See the keys and their characters in the next table:

	Keystrokes							
Key	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
[1]	.	,	?	!	1			
[2]	A	B	C	2				
[3]	D	E	F	3				
[4]	G	H	I	4				
[5]	J	K	L	5				
[6]	M	N	O	6				
[7]	P	Q	R	S	7			
[8]	T	U	V	8				
[9]	W	X	Y	Z	9			
[0]	Space	0						
[*]	(	)	/	*	:	-	+	#
[#]	Uppercase/lowercase (toggle)							
[END]	Cancel/Return to previous screen without saving							
[NEXT]	Next character							
[BACK]	Previous character							
[ENTR]	Select/Save							

14.4   How to send Panic alarm

When you activate PANIC alarm, the sirens are activated and the alarm is immediately reported to your CMS (if you are a subscriber) and your private phones.

You generate a Panic alarm by pressing and holding the Asterisk and Hash keys for 2 sec, or until a confirmation tone is sounded.

(*) + (#)

In addition to the above responses, the Installer can set the system to response in various ways.

14.5   How to reset Smoke, Fire and Anti-Mask detectors

Smoke, Fire and Anti-Mask detectors are normally reset automatically, if they are activated. You can manually reset these detectors: press and hold the hash key (#) for 2 seconds, until a confirmation tone is sounded.

14.6   How to silence the keypad chime

To silence the keypad chime, press together (END) + (ENTR) briefly (toggle). To silence the chime in case of faults, press (END) for 2 seconds.

When you turn the chime Off, you disable audible indications for faults and opening of Chime zones

In partitions, the chime is set separately in each keypad.

15   How to control via the phone

Phone control is not available in Captain 8. This section refers to Hunter-Pro Series only

You can control the Hunter-Pro Series alarm system by any touchtone or cellular phone. You can initiate a call to the alarm system and control it, or you can answer a call from the system, for example, when you receive an alarm message.

There are two modes to phone control (set by the Installer):

- Basic: that includes operations like arming, disarming, deactivating the sirens, and more. This is the default mode.
- Full: that includes the basic mode and in addition, activating devices connected to the alarm system.

15.1   Basic mode

To control the system by the phone, do the following:

1. Call the alarm system (or answer a call from it)
2. After the call is answered, wait for a confirmation tone: a long tone followed by 2 beeps

> **The system does not recognize phone commands (tones) while sounding the confirmation tone. Therefore, you must wait until the confirmation tone is over, before pressing any phone key**

3. Dial the Master code or authorized user code (see section 9.4, on page 21)
4. Listen to the system status tone:

    <u>Continuous</u>: system is disarmed

    <u>3 beeps</u>: system is armed

5. Dial a number, according to the next table. The panel confirms every command with two beeps:

Dial	Action
0	Stop the external siren and the dialer
1	Arm the system
2	Disarm the system (must be specifically enabled by the technician)
4	Arm the system to "Home 1" mode
5	Activate a device
6	Deactivate a device
7	Arm the system to "Home 2" mode
8	Activate listen in for one minute (using the MIC-200). Press again to extend by one minute

- While the system is communicating, the message "Other keypad in use" is displayed on all the keypads.
- If the panel does not receive any command for 60 seconds, it disconnects the call. It then remains in standby mode (with the above message displayed on the keypads) for another 60 seconds, before the message disappears.
- During listen in, all other phone commands are disabled.

15.2   Full mode

To control the panel in full mode:

1. Repeat steps 1-4 in the previous Basic mode section.
2. To activate a device, dial [*] and a command from the following tables.
3. To deactivate an device, dial [#] and a command from the following tables.

General	
Command	**Dial**
Turn off the external siren and stop the dialer	*00
Arm the system	*01
Disarm the system	#01
Arm to "Home 1" mode	*04
Arm to "Home 2" mode	*07
Start listen in for 1 min.	*08

Devices connected to the control panel	
Output	**Dial**
Ext. SIREN	11
Int. SIREN	12
RELAY	13
SMOKE	14
ON/OFF	15
ALARM	16
AUDIO Ctrl	17

Devices connected to I/O-8N zone expanders	
I/O-8N	**Dial**
1	31
2	32
3	33
4	34
5	35
6	36
7	37
8	38
9	39
10	40
11	41
12	42
13	43
14	44
15	45
16	46

Devices connected to I/O-R RELAY expanders			
Expander no. 1		**Expander no. 3**	
RELAY no.	**Dial**	**RELAY no.**	**Dial**
1	51	1	67
2	52	2	68
3	53	3	69
4	54	4	70
5	55	5	71
6	56	6	72
7	57	7	73
8	58	8	74
Expander no. 2		**Expander no. 4**	
RELAY no.	**Dial**	**RELAY no.**	**Dial**
1	59	1	75
2	60	2	76
3	61	3	77
4	62	4	78
5	63	5	79
6	64	6	80
7	65	7	81
8	66	8	82

Send text message with the system status to your phones	
Phone no.	**Dial**
1	91
2	92
3	93
4	94

15.2.1 Examples

15.2.1.1 How to activate the "Ext. SIREN" output

Dial the panel's phone number → the panel picks up the call → wait for the confirmation tone to end → dial the Master code → wait for command confirmation tone to end → dial ∗11

15.2.1.2 Deactivate RELAY#2 in I/O-R #2

Dial the panel's phone number → the panel picks up the call → wait for the confirmation tone to end → dial the Master code → wait for command confirmation tone to end → dial #60.

15.3 Comparison between the Hunter-Pro Series models

Feature	Hunter-Pro 832	Hunter-Pro 8144
Zones (8 basic)	32	144
Users	32	144
Partitions	16	16
Wireless zones	24	32
Key fobs	24	24
Memory total	500	999
of which non-volatile	250	512

15.4 Comparison between the Hunter-Pro 8144 and Captain 8

Feature	Captain 8	Hunter-Pro
Zones (using expanders	16	144
Zone doubling (of the onboard zones)	√	√
Keypads	8	8
Partitions	4	16
EXP-PRO	-	√
I/O-8N/PS	1	17
I/O-16/PS	-	8
Outputs	12	58
of which onboard	3	7
OUT-1000	-	√
I/O-R	1	4
I/O-WN	√	√
Wireless zones	8	32
Key fobs	24	24
Users	30	144
RFiD tags	30	144
Events Log	160	500
of which non-volatile	128	250

16   Troubleshooting

Faults are indicated by the flashing red LED in the keypad, a description of the fault is displayed, the buzzer sounds beeps and the system logs it. In addition, the service technician can set the system to report it to the Central Monitoring Station, to send an alert by the telephone, to trigger an output and more.

If more than a single fault occurs, the display will scroll between them.

Unless instructed otherwise, call a service technician when the system reports on faults.

Fault	Description and troubleshoot
Low Battery	Occurs after a prolonged power failure or when the battery is outdated. If the fault lasts more than one day, or there was no previous power failure, call a service technician.
Mains Fault	Appears during a power failure.
Clock Not Set	Appears following a prolonged power failure during which the backup battery was completely discharged. Set time and date (see page 19).
Phone Line Fault	Perform phone line test (see key BACK: Manual System Tests on page 28). Make sure no other telephone appliance is using the line. If the fault persists, call a service technician.
Tamper 1	Tamper switch 1 is open.
Tamper 2	Tamper switch 2 is open.
Expander X Tamper	Expander X's box or tamper is open.
Expander X Fault	Expander X is faulty.
EXP X Voltage	Low voltage to the I/O-8N zone expander.
Expander X Mains	Expander X has no Mains voltage.
Expander X Batt	Expander X has low battery fault.
Keypad X Tamper	Keypad X's tamper switch is open.
Low Voltage	Appears before the backup battery is completely discharged, usually during a prolonged power failure. Call a service technician immediately!
Wireless Z Fault	A wireless detector (zone) is faulty (no supervision signal).
MS COM Fault	Failure to communicate with the Central Monitoring Station over the phone.
KEYPAD NOT CONNECTED	No communication between the keypad and the control panel.
GSM Unit Fault	The GSM-200 module cannot be detected or is faulty.
GSM Link Fault	GSM limited or no reception.
GSM Comm. Fault	GSM communication failure with Central Monitoring Station #1.
GSM Comm. 2 Fault	GSM communication failure with Central Monitoring Station #2.
SIM Card Fault	SIM card is not detected or is faulty.
Wireless System	I/O-WN module cannot be detected or is faulty.
W/L Unit Tamper	I/O-WN box tamper is open or faulty.
Other keypad in use	Other keypad is in use or the system is remotely controlled via the telephone.

Fault	Description and troubleshoot
Check Keypad Number	The keypad's ID is not configured properly.
Keypad X Fault	Keypad X is faulty.
Zone Fault	A zone (include. Wireless zone) is tampered or faulty. **Possible tampering!**
Detec Vol. Fault	Detector voltage is faulty due to **possible tampering**. Call a service technician immediately!
SMS Com. Failure	SMS communication fault.
Install SMS Unit	No SMS unit is detected or the unit is faulty.
Network Fault	Network communication with the Central Monitoring Station is faulty.
IO-R X Fault	The I/O-R relay expander is faulty.
IO-R X Tamper	The I/O-R relay expander tamper is open.
IO-R X Voltage	Low voltage in the I/O-R relay expander.
IO-R X Mains	IO-R X has no Mains voltage.
IO-R X Batt	IO-R X has low battery.
Wireless Jamming	The wireless receiver (I/O-WN) is jammed.
Supervision	A wireless detector "life signal" has not been received.
Int. siren fault	The internal siren is faulty.
Ext. siren fault	The external siren is faulty.
Video X fault	Communication fault between the panel and the video unit VVR #X.
Video X power fault	Voltage fault in VVR #X.
net4pro fault	Communication fault between the panel and the net4pro network card.

17 Appendix: Zone Location Table

No.	Zone	Location		No.	Zone	Location
1.				53.		
2.				54.		
3.				55.		
4.				56.		
5.				57.		
6.				58.		
7.				59.		
8.				60.		
9.				61.		
10.				62.		
11.				63.		
12.				64.		
13.				65.		
14.				66.		
15.				67.		
16.				68.		
17.				69.		
18.				70.		
19.				71.		
20.				72.		
21.				73.		
22.				74.		
23.				75.		
24.				76.		
25.				77.		
26.				78.		
27.				79.		
28.				80.		
29.				81.		
30.				82.		
31.				83.		
32.				84.		
33.				85.		
34.				86.		
35.				87.		
36.				88.		
37.				89.		
38.				90.		
39.				91.		
40.				92.		
41.				93.		
42.				94.		
43.				95.		
44.				96.		
45.				97.		
46.				98.		
47.				99.		
48.				100.		
49.				101.		
50.				102.		
51.				103.		
52.				104.		

No.	Zone	Location		No.	Zone	Location
105.				125.		
106.				126.		
107.				127.		
108.				128.		
109.				129.		
110.				130.		
111.				131.		
112.				132.		
113.				133.		
114.				134.		
115.				135.		
116.				136.		
117.				137.		
118.				138.		
119.				139.		
120.				140.		
121.				141.		
122.				142.		
123.				143.		
124.				144.		

Installer Details:

Name: _____   Phone: _____

                                      Cellular: _____

Company: _____

Phone no.: _____

Date of installation: Day _____ Month _____ Year _____

End of service: Day _____ Month _____ Year _____

Limited warranty

PIMA Electronic Systems Ltd. does not represent that its product may not be compromised and/or circumvented, or that the Product will prevent any death, personal and/or bodily injury and/or damage to property resulting from burglary, robbery, fire or otherwise, or that the Product will in all cases provide adequate warning or protection. The User understands that a properly installed and maintained equipment may only reduce the risk of events such as burglary, robbery, and fire without warning, but it is not insurance or a guarantee that such will not occur or that there will be no death, personal damage and/or damage to property as a result.

PIMA Electronic Systems Ltd. shall have no liability for any death, personal and/or bodily injury and/or damage to property or other loss whether direct, indirect, incidental, consequential or otherwise, based on a claim that the Product failed to function.

Please refer to a separate warranty statement found on PIMA website at:

http://www.pima-alarms.com/site/Content/t1.asp?pid=472&sid=57

Warning: The user should follow the installation and operation instructions and among other things test the Product and the whole system at least once a week. For various reasons, including, but not limited to, changes in environment conditions, electric or electronic disruptions and tampering, the Product may not perform as expected. The user is advised to take all necessary precautions for his/her safety and the protection of his/her property.

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