

Hunter-Pro 832/8144 Captain 8

Includes Hunter-Pro & Captain Lite

S e c u r i t y S y s t e m s



User Guide (ZA)

PIMA
FOR BETTER PROTECTION
PIMA ELECTRONIC SYSTEMS LTD.

Quick Reference Guide – The keypad keys

Key	Enter Master code and press the key to...	Press the key for 2 seconds* to...
1	Arm to Full mode, disarm	Quickly arm to Full mode*
2	Display the log (event memory)	-
3	Bypass zones temporarily	-
4	Arm to "Home 1" mode	Quickly arm to "Home 1" mode*
5	Display modes menu	Display the "All Zones" mode for a minute
6	Set the telephone numbers	-
7	Arm to "Home 2" mode	Quickly arm to "Home 2" mode*
8	Set time and date	-
9	Set user codes	-
*	Set zone chime	Turn ON/Off the chime for chime zones
0	Set auto-arming by day and inactivity	-
#	-	<ul style="list-style-type: none"> • Reset smoke detectors • Press briefly: display armed partitions
END	Press: cancel, return	Silence the chime at faults
NEXT	<ul style="list-style-type: none"> • Display the system's name & version • In programming mode: moves the cursor to the right 	Display the service provider
BACK	<ul style="list-style-type: none"> • Initiate system tests • In programming mode: moves the cursor to the left 	-
ENTER	In programming mode: enter/select, save changes	Display the system's name & version
* + #	<ul style="list-style-type: none"> • Press and hold for 2 seconds: generate Panic alarm • In programming mode: enable ('+') or disable ('-') parameter, delete 	
ENTER + END	Press briefly: turn ON/OFF the keypad chime	

The numerals imprinted above and below the LCD screen are zone numbers (above & under) and partition numbers (under).

* Commands marked with an asterisk must be enabled by the Installer.

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Signs in this guide



Warning



Note



Press a key



Press and hold a key for 2 sec. or until you hear a beep

Factory default Master code: 5555

1. Introduction

Congratulations on your purchase of the Hunter-Pro Series 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 entirety in order to familiarize you with the system and take full advantage of its features.

To assure optimal safety and security, you should perform a system test once a week. See section 11.12, page 33 for details.

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

1.1 Hunter-Pro & Captain 8 features

- Hybrid systems with hardwired and wireless zones.
- Operating modes: Full, or partial "Home 1" & "Home 2".
- Menu-driven LCD and Graphic keypads, cost-effective LED keypads.
- Optional use of partitions for perimeter zones and separate locations.
- Various automatic arming.
- 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.
- Various methods for preventing false alarms.
- Full log, part is non-volatile

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 eight subsystems.



1.3 Captain 8 unique features

- 8-16 zones.
- Up to 30 user codes & RFID tags.
- Various partitioning options:
 - Up to four partitions
 - Up to four sub-systems



1.4 About the Lite versions

The Hunter-Pro Lite version does not include the following Hunter-Pro modules and components:

- PSTN
- GSM Voice
- Sirens Ext./Int. outputs
- Smoke output
- Key input
- Tamper 1-2 inputs
- Expansion card socket
- Technician keypad connector

The Captain Lite version does not include the following Captain 8 modules and components:

- PSTN
- GSM
- PGM output
- Smoke output
- One +V terminal
- Technician keypad connector

1.5 Safety & Security

In addition to any other safety restriction, 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.



Both the Hunter-Pro Series & the Captain 8 systems have been registered in accordance with the EN60950 standard.

1.6 System codes

1.6.1 Master code

The Master code is a super user code with all the access authorizations. It is mainly used for changing the "Master Code" itself and for remote connection.

The default factory Master Code is 5555.



Replace the default Master code immediately after installation to prevent unauthorized and illegal operations.

1.6.2 User codes

A User code allows you to grant the user access authorizations, disarming time frame and more. It is reported and logged together with any action the user is taking.

Users can be restricted from parts of the user menu by the user authorizations.

1.6.3 Short Code

A 2-numeral code, used only for arming the system.

1.6.4 Duress Code

A code for using in distress situations. When you are forced to disarm the alarm system, enter this code that disarms the system, but also sends a silent alarm to the Monitoring Station (where relevant) and your phone.

1.7 The User Menu

The User menu is where parameters such as time & date, user codes and user authorizations are set. To access the User menu, do one of the following:

- Enter the Master code, OR
- Press and hold '0' for 2 sec. and enter an authorized user code:



By default, entering a User code arms or disarms the alarm system (toggle mode). The Installer can program the system, so entering the code displays the User menu.

After entering the User menu, the sub-menus are accessed directly, by pressing the keypad keys. Each key menu is printed above it, e.g. "Time", "Codes".

1.8 The keypads

The RXN-400, RXN-410/RFID and RXN-800 are PIMA's LCD keypads. They are designed for maximum simplicity and durability and present decorative design.

The RXN-400 & RXN-410 are identical, except for their screen size: 410's is larger.

The screen is made of 2 lines, 16 characters in each. The upper line displays the time and the date (depending on the display type). Both lines display data regarding the system, such as events, faults and zone status.



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



Figure 1. RXN-400 (left) and RXN-800 keypads

2. Key #1: Arm & Disarm

To arm and disarm your alarm system, enter the Master or the Short codes and press '1'. Users should only enter their code to arm and disarm.

If no zone is open and no fault exists, the Exit delay countdown starts, the keypad buzzer sounds beeps and the Red ARMED LED flashes. You can now exit the premises and close the door behind you¹.

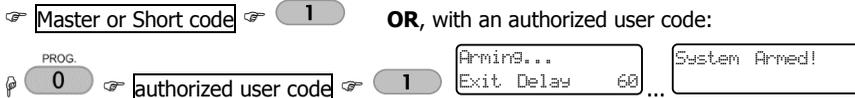
When the Exit delay ends, the system becomes armed: the ARMED LED stops to flash and stays on, the beeps stop, the message "System Armed" is briefly displayed and then the date and time are displayed.

2.1 Arming

Your alarm system can be armed in the following ways:

1. Via the keypad.
2. Automatically, at a preset time. See section 10, on page 26.
3. By a key fob, key switch, RFID tag/keychain, and remote control (Hunter-Pro only). See section 11.4, on page 30.
4. Remotely, by the phone (Hunter-Pro only). See section 12 **Error! Reference source not found.**, on page 34.

2.1.1 Via the keypad



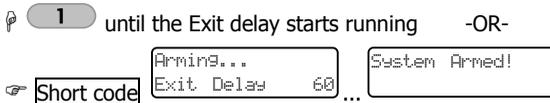
2.1.2 Exit & entry delayed zones

To arm the alarm system all zones should be closed, except those on the exit route. Alarming or faulty zones must be reinstated before you can arm the system. Open zones are indicated by a rectangle  on the 'Fast zone' display mode) or 'OP' (on 'Scan open zones' display mode).

Zones such as exit doors and areas near the keypad can be programmed not to trigger the alarm for a limited time, while the system is arming and you leave or enter the premises.

The Exit and Entry delay times are programmed by the installer. The installer can also set two different Entry delays, to two different entry paths, for example.

2.1.3 Fast arming to Full mode²

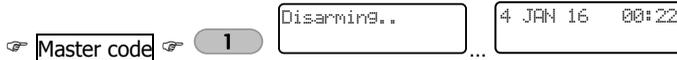


¹ The Exit delay can start immediately as soon as the final door is closed. Refer to the Installer.

² Fast arming must be enabled by the Installer.

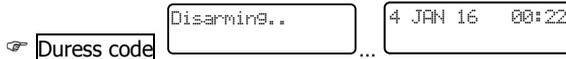
For instructions on how to set the Short code, refer to section 9.4, on page 25. For fast arming to the 'Home' modes, refer to section 4, on page 12.

2.2 Disarming



If an "Access denied" message is displayed, the user may be trying to disarm the alarm system outside its "Disarming time frame". See section 9.2.5, on page 23 for details.

2.2.1 Disarming with the Duress code



For details on the code, see section 1.6.4, on page 7. For how to set the code, refer to section 8, on page 22.

3. Key #2: Event Log

The system logs alarms, arming & disarming events, zone bypassing, faults, code changing and other actions, chronologically. Any action taken by any user is logged with its user name.

Part of the log is non-volatile (see the table on page 32).

The log screen can display all the events (☞ '0'), or only faults (☞ '1'), alarm events (☞ '2') and arming/disarming events (☞ '3'). To switch between types, press the corresponding number in each screen.

A log entry shows the date & time stamp of the event on the top line, and the event's details on the bottom line.

Press **NEXT** / **BACK** to move between entries.

Press ***** / **#** to advance/move back 10 entries.

Example for zone alarm entry

Serial no.	Time stamp
124122 NOV 16 04:35 Burgl Alarm 17	124122 NOV 16 04:35 Garage door

Alarm type Zone no. Zone name

A "Burglary" alarm in zone #4, named "Kitchen". The zone name is displayed intermittently with the alarm type and zone number.

3.1 View options

0: All events

☞ **Master code** ☞ MEMO. **2** Show: All Events-0 ☞ **ENTR** 71) 14 APR 16 13:28
User 8 -Disarming

1: Faults only

☞ **Master code** ☞ MEMO. **2** SERVICE **NEXT** Show: Faults Only-1 ☞ **ENTR** 87) 2 AUG 16 07:51
AC Voltage Fault

2: Zone alarms

☞ **Master code** ☞ MEMO. **2** SERVICE **NEXT** SERVICE **NEXT** Show: Zone Alarms-2 ☞ **ENTR**

124122 NOV 16 04:35 Burgl Alarm 17	...	124122 NOV 16 04:35 Garage door
---------------------------------------	-----	------------------------------------

3: Arming/Dis.

☞ **Master code** ☞ MEMO. **2** SERVICE **NEXT** SERVICE **NEXT** SERVICE **NEXT** Show: Arming/Dis.-3 ☞ **ENTR**

71) 14 APR 16 13:28
User 8 -Disarming

4. Key #3: Bypassing Zones



- ***Bypassing zones reduces the safety of your protected premises: a bypassed zone does not trigger the alarm when violated, nor does it report on it!***
- ***Bypass a zone only when you must. If you bypass a zone because of a fault, call service.***
- ***A bypassed zone is automatically reinstated when the system is disarmed³.***

Open or faulty zones do not allow you to arm your alarm system, before they are closed⁴ or the faults are resolved, respectively. An out of order detector can prevent a zone from being closed technically. The only way to arm the system nevertheless is by temporarily bypass these zones. Temporarily means for the next arming session, and so it is until the next disarming.

Zones can be bypassed only when the alarm system is disarmed, prior to or just when arming the system. The letter "B" in "Fast zone display" mode indicates a zone is bypassed

The installer can set a time limit for a zone to be in a bypassed mode prior to arming. When this time expires and the system has not been armed yet, the zone is automatically reinstated.

Regular users can be disabled from bypassing zone using the user authorizations. See section 9.2.4, on page 22 for details.

4.1 How to bypass when arming



When you try to arm the alarm system and a 24-hour zone⁵ is open or some faults occur, the keypad sounds beeps and the message "Open Zone! Press END or Bypass", with the zone/s details, is displayed intermittently. You can press "3" to bypass these zones and arm the alarm system (when the exit delay will expire), or press END and cancel arming.

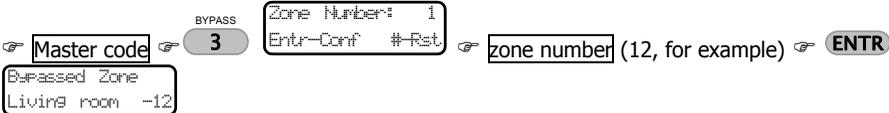
If you do not cancel arming, when the Exit delay expires the system is armed and immediately sound the alarm.

³ Except when the installer permanently bypass a zone (for example, when the detector is no longer needed).

⁴ Except entry/exit delayed zones.

⁵ 24-Hour zones sound the alarm whenever they are violated, regardless of the system status.

4.2 How to bypass prior to arming



You can bypass a zone in advance of arming the alarm system (see the opening paragraph above, regarding a time limit). The zone will be reinstated, when the system will be disarmed.

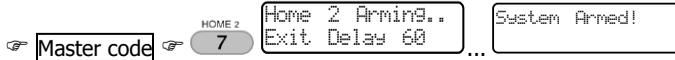


Be aware that a zone is bypassed immediately and stays so, until the system is disarmed (unless there is a bypass limit time).

4.3 How to reinstate a bypassed zone



5. Keys #4, #7: HOME Arming Modes



'Home' 1 & 2 are arming modes, in which only some zones are armed and trigger the alarm if violated, while others are not armed and can be occupied at the same time.

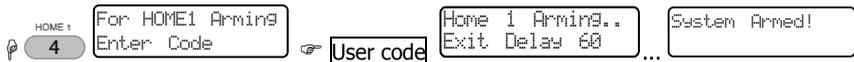
Common applications for the Home modes are perimeter and nighttime zones.

Zones included in the Home modes are set by the Installer and require no hardware installation.

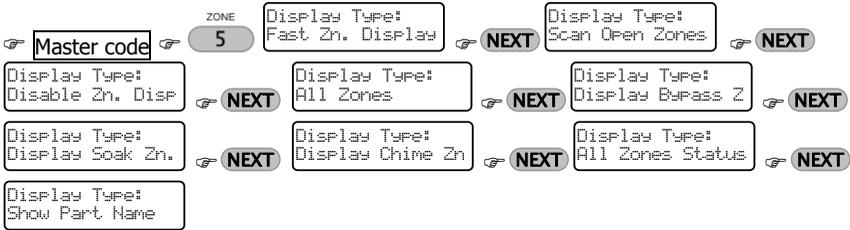
Arming to the Home modes is much like arming to full mode, and there is a fast arming option.

The Exit delay for both Home modes can be cancelled by the Installer.

5.1 Fast arming to 'Home' 1 & 2



6. Key #5: Displaying Types



Your keypad has few options for displaying information on zones⁶, alarms, faults etc. There are two basic displaying types: single screen, and scrolling. Other types display various information for a minute, before they return to one of the basic types.

6.1 Fast 32-zone display



This display type is best used in systems with up to 32 zones (detectors), each line can display up to 16 zones. The zone's status is represented by different characters.

The numbers above and below the LCD screen, represent zone numbers. See the image below.

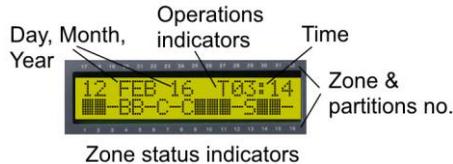


Figure 2. "Fast Zone" mode with 16 zones

The system characters on the top line are:

Char.	Description
P	The system is communicating or testing the phone line
T	The system is communicating over the Radio
R	The Relay output is active
S	The Siren output is active

The zone status indicators are:

Char.	Description
---	Closed (not triggered) zone
■	Open (triggered) zone. If the zone has more than one active indicator (the zone is open and alarming, for example), the indications are displayed intermittently.
A	The zone is alarming (it is open or was violated when the system was armed)

⁶ Zone names are programmed by the Installer.

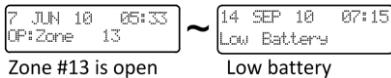
Char.	Description
B	The zone is bypassed
C	Chime zone
F	The zone is at fault (or a tamper switch is open). Call service immediately!
L	Low battery in a wireless detector
O	24-hour zone is open or, armed partition (with its no. below). Press # to display the armed partitions.
S	Short in the zone's wires
T	The zone is in soak (test) mode
V	A wireless detector is not responding

6.2 Scan open zones



In this option, the system continuously scans the zones and the system's status, and displays open zones, faults and alarms by different characters. The information is scrolled on the display.

For example:



The zones' status indicators are:

Char.	Description
OP	Open
AL	Alarm - currently or when the system was armed.
FL	Cut
SH	Short
SV	Supervision loss
LB	Low battery (wireless zone)
AM	Anti-mask

6.3 Disable zone displaying



The zones' status is not displayed, only alarms and faults (if there are any).

6.4 Other types

The other types are used for displaying various information. On each type, after you press **ENTR** its information is displayed for a minute. See the menu screens on section 4, on page 12.

6.4.1 All zones

Master code → 5 → NEXT X3 Display Type:
All Zones → ENTR → zone number → ENTR repeatedly.

This type is used for displaying the properties of every zone - name, partitions and type.

6.4.2 Bypassed zones

Master code → 5 → NEXT X4 Display Type:
Display Bypass Z → NEXT to other bypassed zones OR ENTR repeatedly, to display the zone's name, partitions and type.

This type is used for displaying permanently and temporarily bypassed zones. Permanently bypassed zones are set by the Installer. Temporarily bypassed zones are automatically reinstated the next time the system is disarmed.

6.4.3 Soak tested zones

Master code → 5 → NEXT X5 Display Type:
Display Soak Zn. → NEXT to other zones - **AND/OR** - ENTR repeatedly to display the zone's name, partitions and type.

This type is used for displaying the zones that are in soak test mode. A zone is tested by the Installer/Service technician, when it repeatedly triggers false alarms.

6.4.4 Chime zones

Master code → 5 → NEXT X6 Display Type:
Display Chime Zn → NEXT to display other zones - **AND/OR** - ENTR repeatedly to display the zone's name, partitions and type.

Chime zones, usually doors and windows, trigger the keypad chime when opened.

6.4.5 All Zones Status

Master code → 5 → NEXT X7 Display Type:
All Zones Status → ENTR C-■■■■CB- 1->10
-F-S- 11->20
-C-■■----- 21->30
-B-■■----- 31->40 → NEXT

This type is used for displaying the status of all the programmed zones. It is designed the same as the "Fast zone" type, 10 zones in each line, 20 in every screen. See section 6.1, on page 15 for details on the characters.

6.5 Show partitions names

Master code → 5 → BACK Display Type:
Show Part Name → ENTR

This type is used for displaying the names of the partition/s (see section 11.3, on page 28 for details) this keypad is allocated to. To disable this mode, repeat the above steps.

This mode requires the "Scan Open Zones" display mode to be selected first.

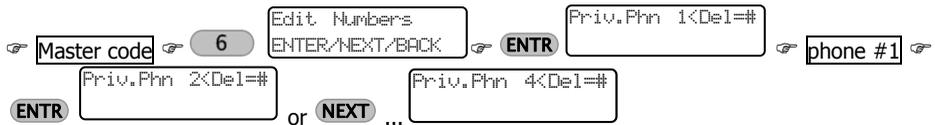
7. Phone Numbers, SMS Settings & Dialer Test (Key #6)



Key #6 has three sub-menus:

- 'Edit Numbers', to set your phone numbers for receiving alarms and other messages from the system.
- 'SMS Settings', to set which of your phones will receive SMS messages instead of alarm messages⁷.
- 'Test dialer', for testing the numbers you have programmed (without triggering the sirens).

7.1 Phone numbers



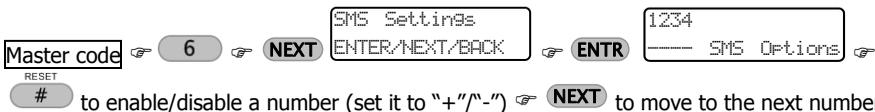
To enter "+", "*", "#" and "P" for one second delay press ***** repeatedly.

The Hunter-Pro Series & Captain 8 alarm systems have an integrated phone dialer, that can call up to 4 numbers and sound a Hi-Lo tone or play a voice message⁸. Another option is to send an SMS message instead of calling⁹.

The dialer attempts to dial each number twice, and aborts it when the following occurs:

- The alarm system is disarmed.
- All numbers were dialed, each number twice and no call was answered.
- In Hunter-Pro Series only, a stop dialing command was sent by the phone.

7.2 SMS messages



Text messages are an alternative way for you to receive alarms and faults reports. The numbers 1-4 stand for the corresponding phone numbers.

A phone number that is set to receive SMS messages will not receive siren tones at alarm.

⁷ Sending SMS messages requires the purchasing of the SMS-100 or the GSM-200 modules.

⁸ This feature requires the purchasing of the VU-20 voice module.

⁹ SMS messages are sent only once to each number.

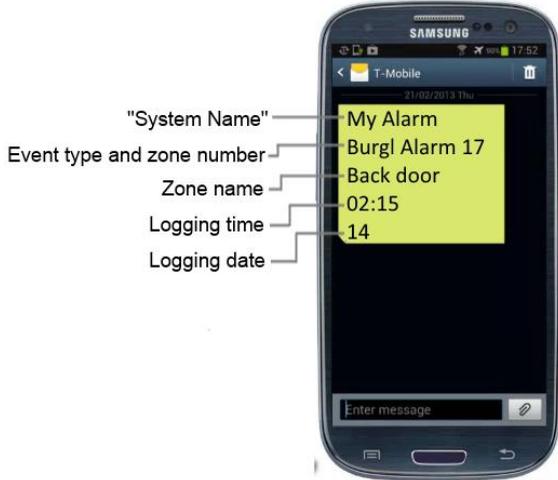
Example

1234
SMS Options

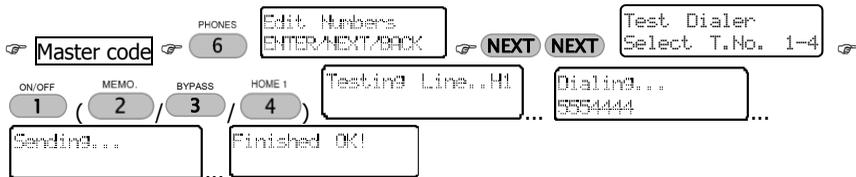
Phone #2 is set to receive SMS messages. The other numbers will hear the Hi/Lo tone at alarm.

Example for SMS message

The content of the SMS messages is taken from the system's log. The time and date indicate when the event was registered in the log, and not when the message was sent.



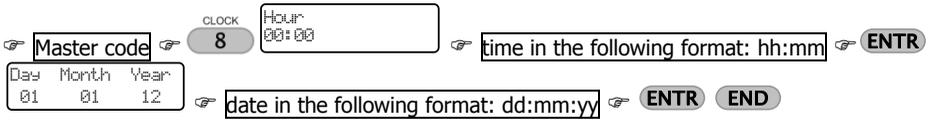
7.3 Dialer test



Use the Dialer test menu to check the programmed phone numbers. Press a number between 1 and 4 to call the corresponding programmed number. If a call is not received, check that the number is correct; if it is, call a service technician.

During the test, the system displays the communication process, as displayed above.

8. Key #8: Time and Date



Use **NEXT** / **BACK** to move to the left and right.

To correct data, use **END** and start over.

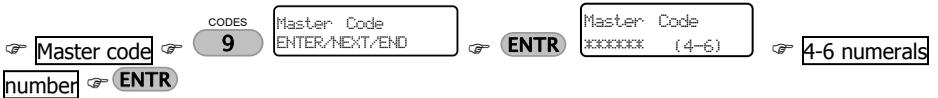
The system's clock should always be kept accurate, for maintaining a detailed log and for functions such as user disarming time frame.

If the clock is not set, a "Clock Not Set" error is displayed.

9. Key #9: Codes

Codes in the Hunter-Pro Series and Captain 8 systems are made of 4-6 numerals (except for the Short code). Duplicate codes or codes that start with same two numerals as the Short code are not allowed. All codes are concealed with asterisks and cannot be revealed or restored in any way.

9.1 Master code



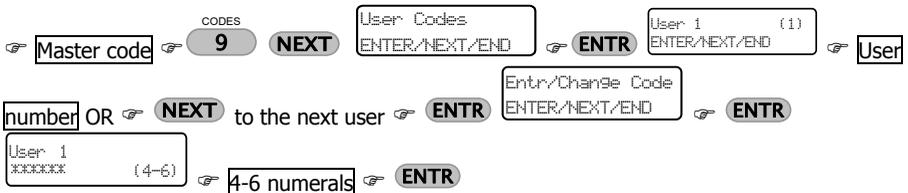
The Master code is a super user code, with all access authorizations. See section 1.6.1, on page 7 for more details. The "Master code" menu is visible only when entering the User menu with the Master code.



Make sure to change the default code during the installation.

9.2 User codes

9.2.1 Add/change



Users can enter the User menu in the following way:

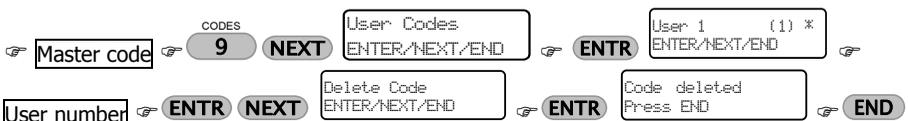
PROG 0 → User code. You can limit users in several ways using the 'User settings' menu. See section 9.2.4 below.

For details about user codes, see section 1.6.2, on page 7.

An asterisk (*) to the right of the user's name, notes the user code has been assigned to this user. For example, "Linda" is the user number 16:

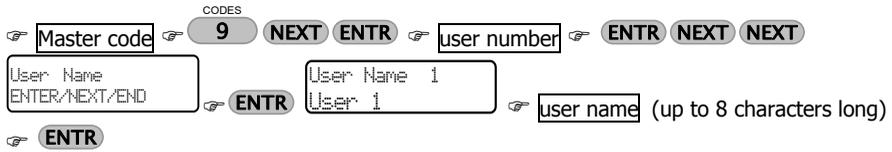
```
Linda (16) *
ENTER/NEXT/END
```

9.2.2 Delete

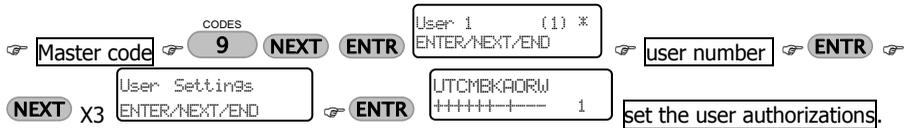


Once a code is deleted, the asterisk will disappear.

9.2.3 User name



9.2.4 User settings



- **NEXT** / **BACK** to move to the left and right
- **#** (RESET) to set to "+" or "-" (toggle):
 - "+": the user is authorized to perform this action
 - "-": the user is NOT authorized to perform this action
- **ENTR** to save

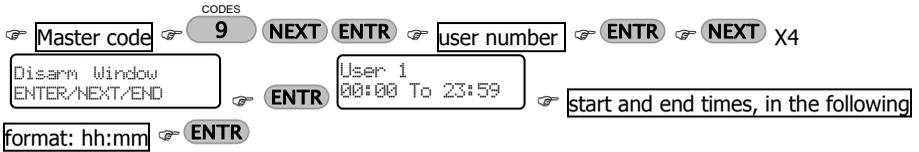
The user settings determine the user authorizations to enter the menus and change data, or to be reported on events. If a user tries to enter a menu it is not authorized to, an "Access Denied" message is displayed.

Each character stands for a different authorization. The letters and authorizations are:

Letter	Onscreen	When setting to "+" the user is authorized to...
U	Code Programming	set user codes
T	Tel. Programming	set phone numbers
C	Date Programming	set time and date
M	Memory view	view the log
B	Zone Bypass	bypass zones
K	Use any Keypad	use any keypad in systems that use partitions ¹⁰
A	Auto-arming Prog	set auto-arming
O	OP/CL Report-SMS	receive arm/disarm events by SMS
R	Remote control	control the system remotely (Hunter-Pro Series only)
W	RFID tag + Code	The user must enter its code, when disarming with RFID tag/keychain.

¹⁰ Must be enabled by the Installer.

9.2.5 Disarming window of time



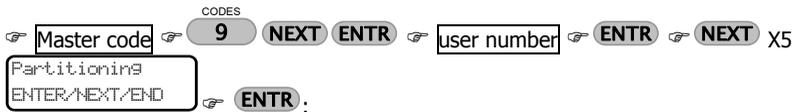
- NEXT / BACK to correct data.

This useful feature allows you to limit users so they can disarm the alarm system only in defined hours. If a user tries to disarm the system in any other time, the message "Access Denied! Press END" is displayed and the system remains armed.

For example, the user "James D." can disarm the system only between 07:30-09:30 am:

```
James D.  
07:30 To 09:30
```

9.2.6 User partitions



```
Part. For User1  
+++++
```

in Hunter-Pro Series

```
Part. For User1  
++++
```

in Captain 8



- NEXT / BACK to move to the left and right.
- ^{RESET} # to assign the user to a partition (set to "+"), or cancel its assignment (set to "-").
- ENTR to save.

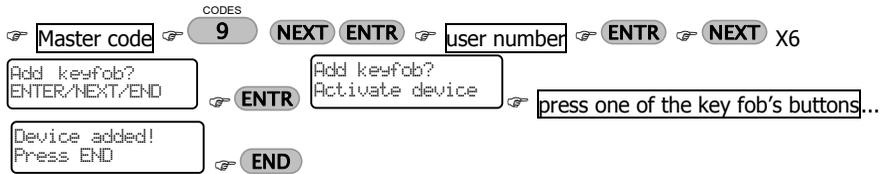
Setting a letter to "+" means, the user is authorized to arm and disarm that partition.

The partition's number is printed on the keypad, below the screen.

There can be up to 16 partitions in Hunter-Pro Series, and 4 in Captain 8. See section 11.3, on page 28 for details about partitions.

To enable a user to control its partitions from any keypad (and not just the keypads that are assigned to the same partition he is assigned to), see parameter "K" in the "User Settings", section 9.2.4, page 22.

9.2.7 How to add key fob



The key fob is assigned per user, so any use of it is logged under the user code. The letter "K" in the user code screen indicates that the User has a key fob assigned to it. For example, a key fob



is assigned to Martha:

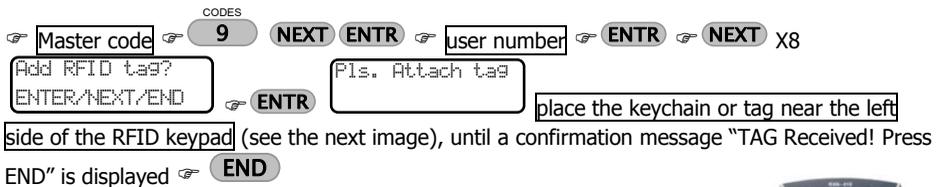
The use of the key fob is subject to the user's settings. See section 9.2.4.

For more details on key fobs, see section 11.4.

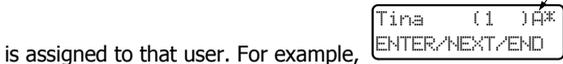
9.2.8 How to delete key fob



9.2.9 Add RFID tag/keychain



The letter "A" in the user code screen indicates that an RFID tag/keychain

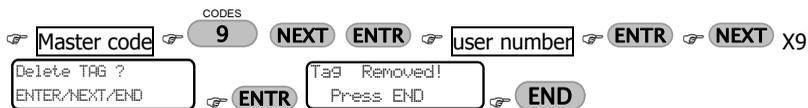


is assigned to that user. For example,



To force the user to enter its code when it disarms the system using an RFID tag/keychain, see the "User Settings" in section 9.2.4, on page 22.

9.2.10 Delete RFID Tag/keychain



9.3 Duress code



The code is a 4-6 numeral number. Tip: use your Master code but switch around the last 2 numerals. For more details on the Duress code, see section 1.6.4, on page 7.

9.4 Short code



The Short code is a 2-numeral code for arming only. Entering the code sets off the Exit delay, after which the system is armed.

9.5 Door code



The door code is mainly used for opening electric doors, gates, etc.

10. Asterisk key *: The Keypad Chime

The keypad's chime helps supervising doors and windows, by sounding beeps for several seconds, every time one is opened. It is especially useful with infants and in shops.

10.1 Set chime zones

☞ **Master code** ☞ **CHIME *** ☞ **Zone Number: 1** ☞ **Entr-Conf #-Rst** ☞ **zone number** ☞ **ENTR** to confirm.

To disable the chime in a chime zone:

☞ **Master code** ☞ **CHIME *** ☞ **Zone Number: 1** ☞ **Entr-Conf #-Rst** ☞ **zone number** ☞ **#** to reset the zone and cancel the chime.

When you set a zone as a chime zone, every time it will be opened the keypad chime will beep. The letter 'C' in the Fast zone type indicates a chime zone.

10.2 Turn the chime on and off for all chime zones



Press and hold the asterisk key, until an appropriate message is displayed: "Chime ON" or "Chime OFF".

10.3 Silence the keypad

☞ **END** + **ENTR**



Pressing these keys together turns the keypad's chime on and off (toggle). This is a per keypad setting.

To Silence the keypad at fault: ☞ **END**

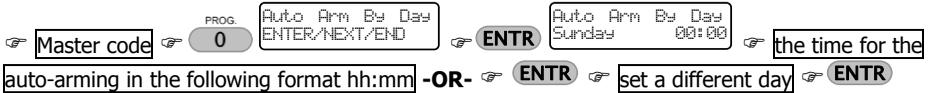


Turning the chime off also disables audible notifications for the exit/entry delays, faults and the opening chime zones.

11. Key #0: Auto Arm

The Hunter-Pro Series & Captain 8 systems offer two ways to automatically arm the alarm system to full and 'Home 1' modes: by day and hour, or after inactivity period.

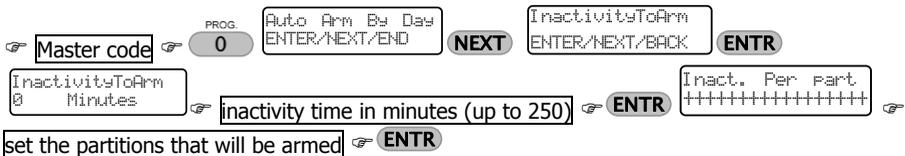
11.1 By day



You can set the alarm system to be automatically armed every day, at a defined hour. At this preset time, a 45 sec. delay will start and the keypad will sound beeps. When the delay expires, the normal Exit delay will start after which the system will be armed to full mode.

The Installer can program the system, so the auto-arming will arm the system to 'Home 1' mode.

11.2 Inactivity auto-arming



- **NEXT** / **BACK** to move to the left and right.
- **RESET** **#** to select a partition (set to "+"), or deselect it (set to "-").
- **ENTR** to save.

The system can be automatically armed, after a period, in which no detector was activated, i.e., the premises is probably vacant and the alarm system was not armed.

This feature can help you ensure, that the premises will always be armed when it is no longer occupied, e.g., during the night.

This feature can be set per partition, so some partitions can be armed automatically, while others are not.

When "Inactivity to Arming" time is due, the partitions that are about to be armed (or are already armed) are displayed as "X", above the partition's number. See the next example.

A sample auto-arming countdown screen: "45" is the auto-arming delay. "X" are partitions that are either armed or about to be armed automatically: 2, 7-9.

```
Auto Arming - 45
X  XXX
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
```



The Installer can enable auto-arming with open zones and some existing faults.

11.3 Partitions

A partition (or sub-system) is a logic or physical area, made of several zones, e.g., a separate compound, a house floor, an office, a perimeter zone. A partition can be armed, while others (i.e., other zones) are not. In this way, only those zones that are allocated to the armed partition/s will activate the alarm, when they are opened. Zones outside the armed partitions can be occupied at the same time.

Partitions are programmed by the Installer. There can be up to 16 partitions in Hunter-Pro Series and 4 in Captain 8. Monitored keypads can also be assigned per partition. Users can also be allocated to partitions, i.e., control (e.g., arm & disarm) only some of the zones.

11.3.1 Examples

Example A: private premises, single keypad

In this example, a single keypad controls all 3 partitions.

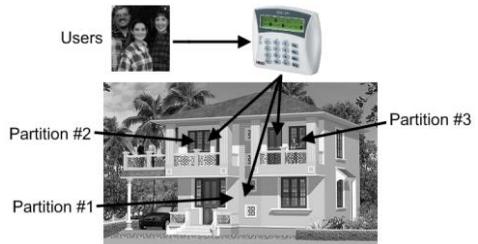


Figure 3. Implementing partitions - Example A¹¹

Example B: variable options¹²



Figure 4. Implementing partitions - Example C

In a three floor building, the first floor is defined as Partition #1, the second as Partition #2 and the third as Partition #3. There are 3 users and 3 keypads, with different authorization levels:

- User #2 is authorized to use all three keypads.

¹¹ Published under 'Creative Commons' license (source: <http://www.flickr.com/photos/axiomestates/3081558445/>)

¹² Published under Creative Commons license (source: <http://awkwardfamilyphotos.com/wp-content/uploads/2009/07/shari-awkward-plaid-family-photo.jpg>)

- User #4 is authorized to use only keypad #1, which controls and displays only partition #2.
- Users #1 & #2 are authorized to use only Keypad #2 which controls and displays all 3 partitions.
- User #3 is authorized to use only keypad #3 which controls and displays only partition #3.

Example C: office compound

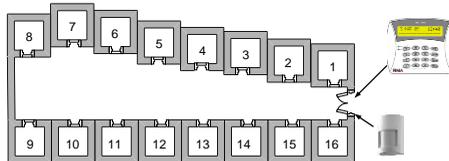


Figure 5. Implementing partitions - Example D

A compound is made of 16 offices, each is located in a separate room. Each room is assigned as a partition and can be controlled by different users, remote controls, key switches and RFID tags. The single keypad in this example will display the status of all partitions, though the users will only be able to control their authorized partition/s.

A detector located at the entrance and allocated to all partitions protects the entrance, as soon as all partitions are armed. This detector will be disarmed as soon as the first partition is disarmed.

Example E: business installation

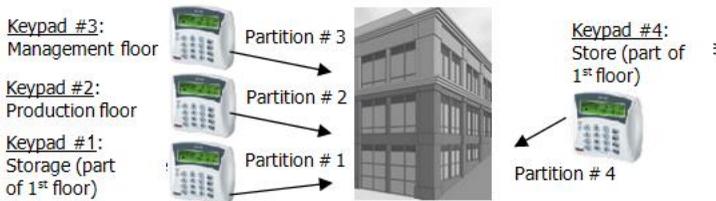
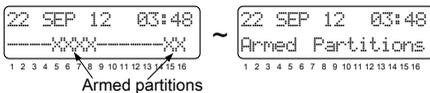


Figure 6. Common application for partitions

The headquarters of a company is divided into 4 departments: each has its own keypad, employees, working hours, etc. The employees (i.e. users) can have access only to their department/partition, or to several.

11.3.2 Displaying armed partitions

The Installer can enable the displaying of the status of the partition. Armed partitions are displayed with "X", above the corresponding number.



Armed partitions

11.4 Arming with key, key fob or RFID tag/keychain

You can arm your system using key switch, key fob and RFID tag/keychain. The 3 accessories are assigned per user. A key switch requires no other module, and it is used mostly in institutions and businesses.

A key fob requires the installation of a wireless module, the I/O-WN that supports up to 24 key fobs. The module can be purchased from your local vendor.

RFID tags and keychains require the use of RFID keypad. The keypad can be purchased from your Installer. Depending on your system model, up to 32/96/144 RFID users can be supported.

11.4.1 Arming with a key fob

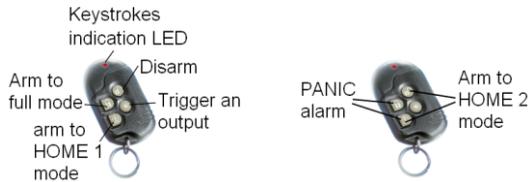


Figure 7. The MCT-234 key fob

Visonic’s MCT-234 key fob has 4 push buttons. Up to 24 key fobs can be assigned to users. Pushing each button, or a combination of two, performs the next actions:

Action	Push button/s
Fully Arm	
Arm to "Home 1"	
Arm to "Home 2"	+
Disarm	
Generate Panic alarm	+
Trigger an output (to open a gate, turn on a spotlight, etc.)	

11.5 Enabling remote upload

Your alarm system can be uploaded (i.e., programmed) remotely, by a service technician, over phone or network. This option is disabled by default. When a technician needs to use it, you have to approve it, by entering the Master code and pressing **ENTR** **ENTR** .

11.6 How to enter characters

Characters are entered the same way as in cell phones: each key has letters and characters associated with it. The number of keystrokes determines which character is selected. To enter more than one character using the same key, wait two seconds between each keystroke.

See the keys and their associated characters in the next table.

Key	Keystrokes							
	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 letters (toggle)							
[END]	Cancel/Return to previous screen without saving							
[NEXT]	Next character							
[BACK]	Previous character							
[ENTR]	Select/Save							

11.7 Panic alarm

A panic alarm triggers the sirens and is immediately reported to the Monitoring Station (where relevant) and your phone. In addition to activating the sirens, the Installer can set the system to response in various ways.

RXN-400/410



To generate a Panic alarm, press and hold the asterisk and the hash keys for 2 seconds (until a confirmation tone is sounded).



RXN-800



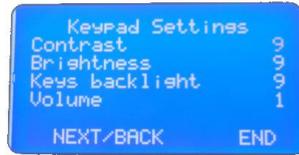
To generate a Panic alarm, press and hold the Panic button for 2 seconds (until a confirmation tone is sounded).



11.8 RXN-800 settings

To access the keypad settings screen, press and hold the BACK key.

1. Press Next/Back to scroll between the options.
2. Press a key between 0-9.
3. Press END to exit.



11.9 Resetting Smoke/Fire/Anti-mask detectors

Smoke, fire and anti-mask detectors need to be reset when activated. They can be reset automatically or manually. To reset them manually: # until a confirmation tone is sounded.

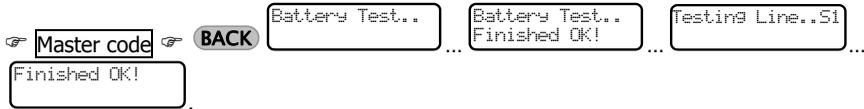
11.10 Comparison between the Hunter-Pro models

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

11.11 Comparison between the Hunter-Pro 832 & Captain 8

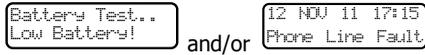
Feature	Captain	Hunter-Pro
Zones (using expanders)	16	32
Zone doubling	√	√
Keypads	8	8
Partitions	4	16
EXP-PRO	-	√
I/O-8N/PS	1	3
I/O-16/PS	-	1
Outputs	12	18
of which onboard	3	7
OUT-1000	-	√
I/O-R	1	3
I/O-WN	√	√
Wireless zones	8	24
Key fobs	24	24
Users	30	32
RFID tags	30	32
Events Log	160	500
of which non-volatile	128	250

11.12 BACK key: Tests



The system continually tests the backup battery, the voltage supply and the phone line. However, you can perform a manual test. A manual test is reported to the Monitoring Station (where relevant).

If the tests fail, the following messages are displayed:



If your alarm system is connected to a Monitoring Station via Ethernet or GPRS, some additional test screens are displayed.

12. Remote Control via the phone (Hunter-Pro Only)

The Hunter-Pro Series alarm system can be remotely controlled via any touchtone or cellular phone. A remote control call can be initiated by both calling the panel and receiving a call from the panel.

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

- Basic mode: includes arming, disarming, deactivating the sirens, and more. That is the default mode.
- Full mode: includes the basic mode and in addition, activating relay switches.

12.1 Basic mode

To control the system remotely:

1. Call the phone number to which the alarm system is connected (or answer a call from it).
2. 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 an authorized User code. see section 9.2.4, on page 22).
4. Wait for a status tone:
 - Continuous: The system is disarmed.
 - Beeps: The system is armed.
5. Dial a number, according to the next table. The system confirms every command with 2 beeps.

Dial	Action
0	Deactivate the external siren and the phone dialer
1	Arm to Full mode
2	Disarm (must be enabled by the Installer)
4	Arm to 'Home 1' mode
5	Switch on the relay
6	Switch off the relay
7	Arm to 'Home 2' mode
8	Listen-in for one minute ¹³ . Press more to extend by one minute

¹³ By the MIC-200 microphone.



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

12.2 Full mode

To control the panel in full mode:

1. Repeat steps 1-4 in the previous Basic mode section.
2. To trigger an output, press [*] and the corresponding characters, as listed in the following tables.
3. To deactivate an output, press [#] and the corresponding command from the following tables.

General	
Command	Dial
Deactivate the external siren and the dialer	*00
Arm to Full mode	*01
Disarm	#01
Arm to 'Home 1' mode	*04
Arm to 'Home 2' mode	*07
Start listen-in for 1 min.	*08

Outputs	
Output	Dial
External siren	11
Internal siren	12
RELAY	13
SMOKE	14
ON/OFF	15
ALARM	16
AUDIO	17

Send system status by SMS	
Phone no.	Dial
1	91
2	92
3	93
4	94

Relays on 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

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

12.2.1 Examples

Activate the external siren output:

Dial the system'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

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.

13. Troubleshooting

Faults are indicated by the flashing Green FAULT 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 14).
Phone Line Fault	Perform phone line test (see BACK key: Tests on page 33). 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.
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!

Fault	Description and troubleshoot
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.

14. Zone Location Table

No.	Zone	Location
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		
17.		
18.		
19.		
20.		
21.		
22.		
23.		
24.		
25.		
26.		
27.		
28.		

No.	Zone	Location
73.		
74.		
75.		
76.		
77.		
78.		
79.		
80.		
81.		
82.		
83.		
84.		
85.		
86.		
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99.		
100.		

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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.

This document may not be duplicated, circulated, altered, modified, translated, reduced to any form or otherwise changed, unless PIMA's prior written consent is granted.

All efforts have been made to ensure that the content of this manual is accurate. Pima retains the right to modify this manual or any part thereof, from time to time, without serving any prior notice of such modification.

Please read this guide in its entirety before attempting to program or operate your system. Should you misunderstand any part of this manual, please contact the supplier or installer of this system.

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