HUNTER-PRO 32 Ver. 3.8
Intruder Alarm System

RXN-9/416 User Guide

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Please read this manual 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.

SAFETY INSTRUCTIONS

Your HUNTER-PRO 32 alarm system has been registered in accordance with EN60950 and its rules. EN 60950 requires us to advise you the following information:

1. In this alarm system exist hazards of fire and electric shock. To reduce the risk of fire or electric shock, do not expose this alarm system to rain or moisture. Pay attention: Telephone cords could be a good conductor for lightings energy.

2. Do not open the door of the alarm system. Dangerous high voltages are present inside of the enclosure. Refer servicing to qualified personnel only.

3. This alarm system should be used with AC 230V/110V, 50Hz, protected by anti electric shock breaker. To prevent electric shocks and fire hazards, do NOT use any other power source.

4. Do not spill liquid of any kind onto the unit. If liquid is accidentally spilled onto the unit, immediately consult a qualified service.

5. Install this product in a protected location where no one can trip over any line or power cord. Protect cords from damage or abrasion.

6. Disconnect all sources of power supply before proceeding with the installation. Pay attention: do not install low voltage wires near by AC power wires they should be separated.

7. Connect the AC transformer output to the terminal block on the control panel as marked.

8. Connect the AC line cord to line power terminals as marked. (GND; N; L)

INTRODUCTION

Congratulations on your purchase of the HUNTER-PRO 32 Intruder Alarm System! Much care has been taken in developing the HUNTER-PRO 32 Intruder Alarm system, which will provide you with unprecedented peace of mind. The HUNTER-PRO 32 user-friendly operation and advanced features will professionally protect your home or business.

HUNTER-PRO 32 Intruder Alarm System contains numerous features that allow it to befit the customer's individual needs, and yet remain easy to program and use both by the customer and the technician. Therefore, it is important to read this manual from cover to cover in order to familiarize yourself with the system and take full advantage of its features. To assure optimal safety and security, you should test the HUNTER-PRO 32 Intruder Alarm System once a week.

For any further questions, please do not hesitate to contact your local **PIMA Distributor** or **PIMA** directly at:
PIMA Electronic Systems Ltd.
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Up to date literature is available to download from our website: www.pima-alarms.com

Main Features HUNTER-PRO 32

- ✦ 9 zones in control panel. Expanded up to 32 zones
- ✦ Supports a wide range of partition options and independent subsystems
- ✦ Full supervised wireless devices
- ✦ Four Monitoring Stations phone numbers
- ✦ LCD keypad with Menu-Driven screens for easy programming and operation as well as two types of LED keypads
- ✦ Up to 24 users with various authorization levels
- ✦ Automatic Arming at a preset time and/or after a preset silence time (per partition)
- ✦ System remote control via any touchtone telephone
- ✦ Sirens monitored and reported for wires cut to CMS
- ✦ Various test options for zones and devices

KEYPAD OVERVIEW

HUNTER-PRO 32 Intruder Alarm System supports two types of LED keypads: RXN-9 and RXN-416. Both keypads display zone status (i.e., zone open or closed), system faults, and arming/disarming the system/partition.

RXN-9 can only display the status of the first 9 zones while RXN-416 can only display the status of the first 16 zones. In any case, zones 17 through 32 can only be displayed on an LCD keypad.

The keypads use the same bus as other PIMA keypads. Therefore, if is set with keypad ID, it can be monitored and used with partitions.

RXN-9 has 9 LEDs, RXN-416 has 16 LEDs, as well as more fault indications.

> **NOTE:**
> It is possible to purchase from PIMA a keypad with tamper switch that "supervises" the keypads connected to the system

RXN-416

The RXN-416 keypad has 16 red zone LEDs, a red Fault LED and a green Armed LED. The 16 zone LEDs are also used for displaying faults (as described below).
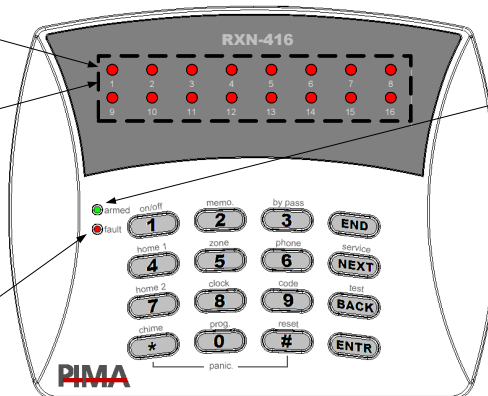
Zone Status:
The status of each zone is listed above its number.

Faults:
Long press on the [**NEXT**] key changes LED display to system faults (see Faults Table for details).

Fault Notification:
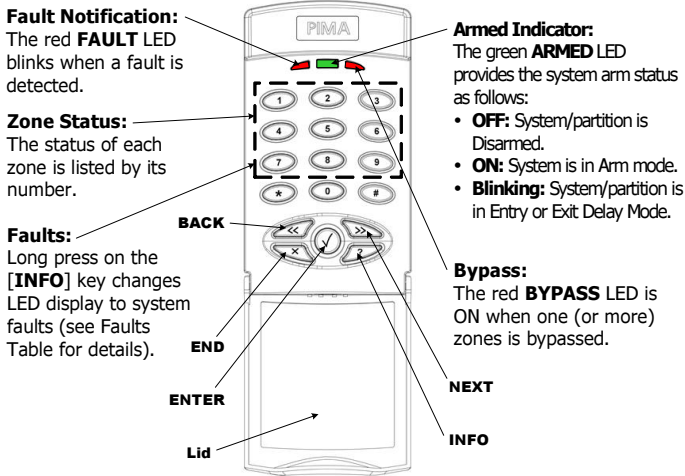The red **FAULT** LED blinks when a fault is detected.

Armed Indicator:
The green **ARMED** LED provides the system arm status as follows:
• **OFF:** System/partition is Disarmed.
• **ON:** System is in Arm mode.
• **Blinking:** System/partition is in Entry or Exit Delay Mode.

RXN-9

The RXN-9 keypad has 9 red LEDs under the 9 keys (1-9). The LEDs give two types of indications: zone status and faults (as described below). A red Fault LED, a green Armed LED and a red Bypass LED.

Fault Notification:
The red **FAULT** LED blinks when a fault is detected.

Zone Status:
The status of each zone is listed by its number.

Faults:
Long press on the [**INFO**] key changes LED display to system faults (see Faults Table for details).

Armed Indicator:
The green **ARMED** LED provides the system arm status as follows:
• **OFF:** System/partition is Disarmed.
• **ON:** System is in Arm mode.
• **Blinking:** System/partition is in Entry or Exit Delay Mode.

Bypass:
The red **BYPASS** LED is ON when one (or more) zones is bypassed.

BACK

END

ENTER

Lid

NEXT

INFO

Please note the different operation keys in both keypads:

RXN-9	RXN-416
⊘	ENTR
≪	BACK
≫	SERVICE NEXT
×	END

DISPLAY

First time operation

When the keypad is connected to power, its circuitry and LEDs are tested. All LEDs will light in a changing pattern for 2-3 sec and then the keypad will start operating with the HUNTER-PRO 32 panel.

Each LED corresponds with a different zone (numbers 1-9 – RXN-9 / 1-16 – RXN-416). The LEDs are OFF when the zones are closed and flash when the zones are open.

Normal Display in User Mode

Each LED corresponds a zone (numbers 1-9 – RXN-9 / 1-16 – RXN-416).

Zone LED Display	Status
OFF	Zone is closed
Flashing	Zone is open
ON	Zone caused an alarm

Operation LEDs indication in User Mode:

Operation LEDs	Status
Fault ON	Fault with the system. Use the next section to display fault(s)
Armed ON	System is armed
Bypass ON	One zone or more have been bypassed in the system.

Fault(s) Display

When a fault occurs the red FAULT LED blinks.

In RXN-9: ☞ [?] to display faults

In RXN-416: ☞ [NEXT] to display fault(s)

The corresponding fault LED will light as described in the following table:

LED No.	Indication	Fault Description	Keypad
1	BATTERY [*]	Low battery	RXN-9/416
2	AC [*]	No voltage from mains	RXN-9/416
3	PHONE [*]	No communication with monitoring station or, a problem with telephone line	RXN-9/416
4	DC [*]	Low voltage	RXN-9/416
5	ZONE [*]	Fault zone	RXN-9/416
6	CLOCK	Hour and/or date are not set	RXN-9/416
7	TAMPER [*]	Open tamper	RXN-9/416
8	FUSE [*]	Detector's voltage is short	RXN-9/416
9	BELL [*]	External/Internal Bell fault	RXN-9/416
10	I/O-W [*]	A problem with the wireless receiver	RXN-416
11	I/O-8 [*]	A problem with one of the remote expanders	RXN-416
12	KEYPAD [*]	A problem with one of the system keypads	RXN-416

* These faults should be fixed by a qualified technician/installer

Programming/connection error: The keypad ID should be reprogrammed	Numerical LEDs are flashing left-to-right	RXN-9/416
Programming/connection error: The keypad is disconnected from the panel	Numerical LEDs are flashing right-to-left	RXN-9/416

User Menu Display

Accessing User Menu – by entering Master Code, Enabled User Code, or long press on ⓪ and User Code (see System Access Codes on page 8) – turns ON the ARMED and FAULT LEDs.

Pressing a programming menu key (see below table) will turn ON the corresponding LED number (the key itself on the RXN-9 and the LED number in the keypads panel on the RXN-416).

Key	After entering Master/User Code (short press)	Secondary Function (long press)	LED Indication	Keypad
BYPASS 3	Temporary bypass of zones	-	Numerical LED 3 constantly ON	RXN-9/416
PHONE 6	Programming telephone numbers	-	Numerical LED 6 constantly ON	RXN-9/416

CLOCK **8**	Programming time and date	-	Numerical LED 8 constantly ON	RXN-9/416
CODE **9**	(After pressing NEXT) Programming the user codes	-	Numerical LED 9 constantly ON	RXN-9/416
CHIME **∗**	Programming zones for Chime feature	Enabling/Disabling the Chime feature	Numerical LED 7 constantly ON	RXN-9/416
PROG. **0**	Programming automatic arming hour and silent time for automatic arming	And valid User Code brings User Menu	Numerical LED 4 constantly ON	RXN-9/416

OPERATION

NOTE:

☞ Regular key press

👆 Long key press, until confirmation beep is heard

System Access Codes

The system can be operated using each of the following codes: **Master Code, User Code, and Short Code**. The Short Code is only useful for arming the system.

There are two additional unique codes, **Duress Code** and **Relay Code**. The Duress Code will disarm the system and at the same time will send a duress event to the monitoring station. The Relay Code will activate the on board relay according to programming.

By default, entering a User Code will toggle the partition/system state (i.e., if it was disarmed it will commence arming and if it was armed it will disarm).

NOTES:

The system's default Master Code is: **5555**

The User Menu can also be accessed as follows:

👆 PROG. **0** ☞ User Code or Installer Code

It is possible (programmable only by the installer) to enable a User Code entering the User Menu instead. When this option is enabled, the user code is referred to as **Enabled User Code**. Enabled User Code will function as the Master Code with the limitation of NEVER being able to set the Master Code and it can only access enabled functions (programmable).

Signals during Arming

Arming with closed zones (normal)

Before arming the system, make sure all zones are closed (except Exit Delay zones – usually zones on exit route). Make sure that all zone LEDs are OFF.

After entering one of these codes, the green 'Armed' LED will flash and a constant beep (once per second) will be heard from the keypad during the exit delay period.
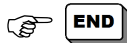
At the end of the exit delay, the green control LED shall stop to blink and turn ON and the beep will stop.

Arming with Open Zones

When activating the system with one or more opened zones (that are not Exit Delay zones), the keypad will beep fast (two beeps per second). With RXN-9 the bypass LED (right red LED) will blink.
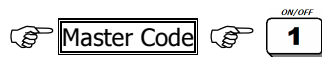
At this stage, there are two options to continue:

Bypass open zones: ☞ $\boxed{3}$ (BYPASS) The system is armed and open zones are bypassed until system is disarmed

Cancel arming: ☞ $\boxed{\text{END}}$ system does not arm and returns to normal operating mode

Arming the System

Arming with Master Code ☞ $\boxed{\text{Master Code}}$ ☞ $\boxed{1}$ (ON/OFF)

Full arming with User Code, Enabled User Code or Short Code ☞ $\boxed{\text{Short Code}}$

OR

☞ $\boxed{\text{User Code}}$
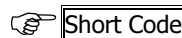
Entering the User or Short codes will arm the system immediately!

OR

☞ Enabled User Code ☞ **1** (ON/OFF)

Arming the system to HOME Mode

Arming "HOME 1": (HOME 1) **4** ☞ Short Code or User Code or Enabled User Code
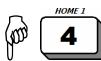
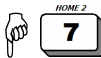Arming "HOME 2": (HOME 2) **7** ☞ Short Code or User Code or Enabled User Code

Fast Arming (without code)

For quickly arming the system (possible only if enabled by installer):

Full Arming: **1** (ON/OFF)

Arming HOME 1: **4** (HOME 1)

Arming HOME 2: **7** (HOME 2)

> **NOTE:**
> Exit Delay in HOME 1 and HOME 2 can be disabled by the installer.

Entering the User Menu

From this point forward, every time Master Code is mentioned in operation and/or programming, the explanation is the same for Enabled User Code and for User Code or Installer Code that accesses the User Menu by long press (👆)

of the **0** (PROG.) key before entering the code.

All these will access the User Menu. On RXN-9, the middle green LED and the left red LED turn ON. On RXN-416, the green Arm and the red Fault LEDs turn ON. The system awaits user selection.

Disarming the System

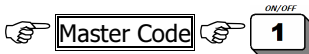## Disarming the system with User Code

☞ User Code

NOTES:
- If the system does not turn to Disarm state, check the time frame for disarming the system (see section "Programming User Codes").
- A User Code can ONLY disarm its allocated partition.

Disarming the system via User Menu

☞ Master Code ☞ [1] *ON/OFF*

General Operation Modes

Displaying Bypassed Zones

NOTE:
RXN-416 does not have a bypass LED.

Display: If the bypass LED (RXN-9 only) is ON, there is one or more user-bypassed zones in the system.

To Bypass a zone: ☞ Master Code ☞ [3] *BYPASS* (LED 3 constantly ON, LED 1 blinks)

☞ Zone number (the pressed zone LED starts blinking[1]) ☞ [ENTR] (the pressed zone

LED stops blinking and the next sequential zone starts blinking) ☞ [END] [END]

NOTE:
When Bypass mode is executed, it is effective until system is disarmed.

To Rearm a bypassed zone: ☞ Master Code ☞ [3] *BYPASS* (LED 3 constantly

ON, LED 1 blinks) ☞ Zone number (the pressed zone LED starts blinking[1]) ☞ [#] *RESET*

(the pressed zone LED stops blinking and the next sequential zone starts blinking)

☞ [END] [END]

[1] If key (zone) 3 is pressed, the LED stays constantly ON

Chime Mode

Enable :   🖐️ [*] (enable all programmed chime zones)

> **NOTE:**
> This mode activates a buzzer in the keypad when a chime zone is triggered. This
> feature can be used to monitor unauthorized entry or exit in the defined zone when
> the system is not armed.

Disable: 🖐️ [*] (disable all programmed chime zones)

Initiate Responses

PANIC: 🖐️ [*] and [#] simultaneously for two seconds.

> **NOTE:**
> You can customize your system's response to a panic event, for example, calling
> the Monitoring Station or your private telephone number. Consult your installer
> about programming a Panic Response.

Keypad Audible Tones

Disable: 🖐️ [END] and [ENTR] simultaneously.

> **NOTE:**
> When the keypad's Audible Tone feature is disabled, **all** audible tones and
> indications, with that keypad, are silenced.

Enable: 🖐️ [END] and [ENTR] simultaneously until you hear a beep.

Arming/Disarming with a Key

HUNTER-PRO 32 can be armed/disarmed with a key. Turn to the installer in
order to use this feature.

> **NOTE:**
> It is possible for the installer to program the system to produce a short beep when
> the system is armed/disarmed with the key.

Remote Control via Touch-tone Phone

The alarm system can be remote-controlled via any touch-tone telephone, including cellular phone. The system can be controlled from the moment communication is established, whether the system called the telephone, or when initiated by the user as following described.

1. Dial the telephone number that the system is connected to

2. Wait for the system's confirmation tone (a long tone followed by two beeps)

3. Enter the Master Code (note **NOT** to enter the code before the end of the confirmation tone)

4. Wait a few seconds until the alarm system confirms its status, using one of the two following tones:

——————— Continuous tone: System is disarmed

- - - - - - - - - - - Beeping sound: System is armed

NOTES:
- The system will not identify commands from the telephone while sounding the confirmation tone. It is important to wait until the confirmation tone is finished before pressing the telephone keys that control the system.
- The alarm system confirms the command was received by two short beeps.

There are two modes for controlling the system, as set by the installer:

MODE A - One touch control

5. Execute command by single key pressing on the phone.
   The following table includes system's commands by phone keys:

Phone key:	Function:
1	Arm the system
2	Disarm the system
4	Arm the system in "Home 1" mode
5	Switch on the Relay
6	Switch off the Relay
7	Arm the system in "Home 2" mode
8	Listen in (only available with a MIC-200 installed)
0	Disables siren and dialer (in case of an alarm)

MODE B - Enhanced control

The enhanced mode enables full control of all systems outputs.

6. Execute command by pressing keys combination: [*] to activate an output; [#] to deactivate an output. The command is followed by the output code as described in the following table.

General	Control panel	Output card	Expanders
00 - Disable dialer	11 - Siren 1	21 - Output no.1	31 - Expander no.1 relay
*01 - Arm	12 - Siren 2	22 - Output no.2	32 - Expander no.2 relay
#01 - Disarm	13 - Relay	.	33 - Expander no.3 relay
04 - Home 1	14 - SMOKE detector	.	
07 - Home 2	15 - ON/OFF output	.	
08 - Listen-in	16 - ALARM output	.	
		28 - Output no.8	

NOTES

- During communication time between system and telephone, the following display will appear on the keypad: Other keypad in use
- If the system receives no command within a minute, it will disconnect from the line and return to normal operation.
- Each time an additional minute of listening (listen-in function) is required, the [*] [0] [8] keys should be pressed again.

Examples:

✦ To disarm the system:

Dial and wait for confirmation tone ☞ Master Code wait for confirmation tone ☞ (on telephone keys) [#] [0] [1]

✦ To activate output No.5 on output card OUT-1000:

Dial and wait for confirmation tone ☞ Master Code wait for confirmation tone ☞ (on telephone keys) [*] [2] [5]
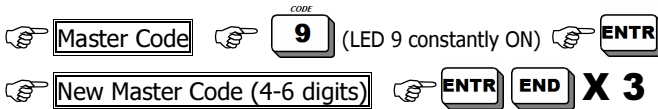
PROGRAMMING THE SYSTEM

Programming Master Code

The default Master Code is: 5555.

The Master Code can ONLY be changed with the master code.

The Master Code is used for accessing memory and programming different functions as described further. It is also possible to arm and disarm the system with the Master Code.

☞ Master Code ☞ 9 *CODE* (LED 9 constantly ON) ☞ ENTR

☞ New Master Code (4-6 digits) ☞ ENTR END **X 3**

Programming User Codes

The User Codes are mainly for arming and disarming the system, but depending on the user's authorization level, the user can also enter the User Menu and perform various tasks as changing other users settings, program telephone numbers, temporarily bypass zones etc.

HUNTER-PRO 32 holds up to 24 different User Codes, 4 to 6 digits each.

> **NOTE:**
> An LCD keypad is required to program user names, a time frame in which he/she will be able to disarm the system, allocated to one or more partitions and specific authorizations.

Adding a User

☞ Master Code ☞ 9 *CODE* (LED 9 constantly ON) ☞ NEXT *SERVICE* (LED 9 constantly ON,

LED 1 blinks) ☞ User number to program ☞ ENTR **X 2**

☞ New User Code (4-6 digits) ☞ ENTR END **X 3**

Deleting a User

☞ Master Code ☞ 9 *CODE* (LED 9 constantly ON) ☞ NEXT *SERVICE* (LED 9 constantly ON,

LED 1 blinks) ☞ User number to program ☞ ENTR **X 2** ☞ # *RESET*

END **X 3**
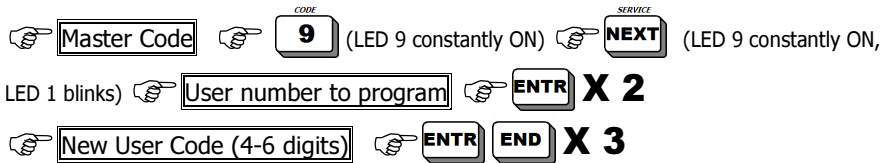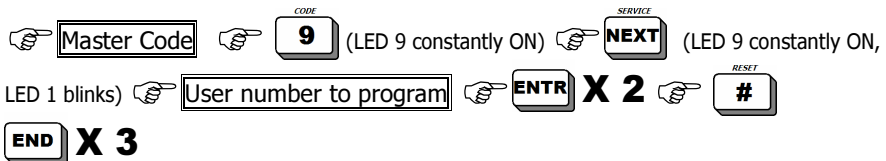
NOTE:
With RXN-9, when selecting users 1 through 8, the corresponding number (key) will blink. With RXN-416, when selecting users 1 through 8 and 10 through 16 the corresponding zone LED will blink.

Setting Time and Date

Time and date should be accurate because they are used in the system's memory log, Automatic Arming, and reporting to monitoring station.

To set time and date:

☞ ⌷Master Code⌷   ☞ [8] (LED 8 constantly ON, LED 1 blinks) ☞ ⌷TIME (HH:MM)⌷

☞ [ENTR] (LED 8 constantly ON, LED 2 blinks) ☞ ⌷DATE (DD/MM/YY)⌷ ☞ [ENTR] [END]

NOTE:
- Enter time in 24:00 (HH:MM) format and date in day/month/year format
- The system will not accept meaningless data, such as 25:25 time.

Example:

To program 6:35 PM @ October 21st, 2005 do:

☞ ⌷Master Code⌷   ☞ [8] (LED 8 constantly ON, LED 1 blinks) ☞

[1] [8] [3] [5] ☞ [ENTR] (LED 8 constantly ON, LED 2 blinks) ☞

[2] [1] [1] [0] [0] [5] ☞ [ENTR] [END]

Automatic Arming

The system can be automatically armed with one of the following three options: 1. At a preset time; 2. After silence-time period; 3. Silence time can be programmed per partition (by technician)

At the preset time or after silence-time period, the system will commence auto-arming unless it was armed before that time. This feature is valid for all weekdays.

The system can detect movement in the protected area via its connected detectors and sensors, therefore, it can identify no-movement hence there is no one in the protected area.
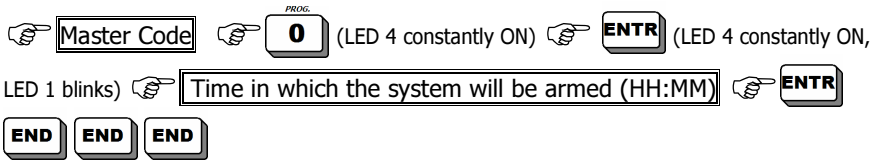
> **NOTE:**
> The silence (no movement) timer will start counting down ONLY if no immediate zones are opened and after the last zone to be closed is the exit delay zone (i.e. the exit door). Any immediate zone opening will terminate the countdown.

When the system starts auto-arming, a 45 seconds 'warning countdown' will start, indicating the arming countdown is to follow. Note that during the 'warning countdown' the keypad will beep. During the 'warning countdown', any disarming code can cancel the auto-arming process.

After the 'warning countdown' is over, the system will begin regular arming process, including exit delay and beeps from the keypad.

Programming Auto-Arming at Preset Time

☞ Master Code   ☞ **0** (PROG.) (LED 4 constantly ON) ☞ **ENTR** (LED 4 constantly ON,

LED 1 blinks) ☞ Time in which the system will be armed (HH:MM) ☞ **ENTR**

END **END** **END**

> **NOTE:**
> To cancel Auto-Arming, the Automatic Arming programming needs to be repeated, and the time to be set as 00:00.

Programming Auto-Arming after Silence-Time is Terminated

☞ Master Code   ☞ **0** (PROG.) ☞ **ENTR** **ENTR** (LED 4 constantly ON, LED 2 blinks)

☞ Silence Time in minutes (250 minutes max) ☞ **ENTR** **END** **END**

> **NOTE:**
> An LCD keypad is required to program silent time per partition.

Private Dialer Telephone Numbers

HUNTER-PRO 32 system has four private dialer telephone numbers.

The dialer will dial each phone number in two sets (i.e. total of 8 attempts) and trigger an alarm warning sound, when the call is 'picked-up'. After the warning sound is over, the system awaits for remote-controlled commands that can be transmitted via the telephone used by the system. The system will hang-up

after a minute of not receiving any command (Remote Control via Touch-tone Phone on page 13).

> **NOTE:**
> In case a Voice-Unit with a recorded message is connected to the system, once the call is picked-up, the system will play the recorded message and not a warning sound.

The dialer aborts the dialing attempts in the following cases:

✦ The system's status changes from ON to OFF

✦ A "Stop Dialer" command was received via telephone. The first Private Dialer User that gives an 'abort' command causes the other Private Dialer Users in the phone list to stop receiving the system's report.

✦ All Private Dialer Telephone Numbers have been dialed twice

Programming Telephone Numbers

It is possible to combine the process of entering/deleting/changing programmed telephone numbers once in the Telephone Menu.

☞ Master Code ☞ **6** *PHONE* (LED 6 constantly ON, LED 1 blinks) ☞ Telephone

number no. 1 ☞ **ENTR** (LED 6 constantly ON, LED 2 blinks) ☞ Telephone number

no. 2 ☞ **ENTR** ☞ (LED 6 constantly ON, LED 3 blinks) Telephone number

no.3 ☞ **ENTR** (LED 6 constantly ON, LED 4 blinks) ☞ Telephone number

no.4 ☞ **ENTR** **END** to exit.

Deleting a Programmed Telephone Number

To delete a programmed telephone number, press the **#** *RESET* key instead of the telephone number.

Chime

Programming the "Chime" feature enables to control opening/closing doors and windows by activating the keypad's buzzer for two seconds each time a

door/window is opened. This feature is especially useful when there are small children in the house, or in shops.

> **NOTE:**
> The "Chime" feature is only enabled when system is disarmed.

Programming Chime Zone

☞ Master Code   ☞ [*] (LED 7 constantly ON, LED 1 blinks) ☞ Zone number

(the pressed zone LED starts blinking[2]) ☞ **ENTR** to confirm or [#] to release

☞ **END** **END** to exit.

For temporary cancellation of Chime see Chime Mode on page 12

Smoke and Fire Detectors Alarm

In case an alarm is triggered due to smoke/fire detectors, press and hold the

[#] key (until a confirmation sound is heard) in order to reset and release the detector.

> **NOTE:**
> The smoke detector returns to normal operation mode after the smoke timer is finished.

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[2] If key (zone) 7 is pressed, the LED stays constantly ON

ZONES DESCRIPTION

Zone #	Partition #	Zone Name/Description
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		