

# Penta<sup>plus</sup>

CONTROL PANEL

USER MANUAL



Electronics Line

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## 1: Introduction

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Congratulations on purchasing the Penta Plus security system. You have taken a major step in protecting your home or business. In addition to the explanation you will receive from your installer, we urge you to read this manual. This will help you familiarize yourself with the system, so that you can take advantage of its many advanced features. This booklet should be kept in an accessible location and the system reference guide, located in the rear portion of this manual, should be filled out. If you do not understand any part of this manual, contact your installer.

***Note: Remember that no security system can prevent emergencies. This system is only intended to alert you in case of an emergency and should not take the place of prudent security practices or life and property insurance.***

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## 2: Overview

Your security system is made up of a control panel, keypads, and various detection devices and sensors. The metal cabinet contains the control panel and the stand-by battery. There is normally no reason for anyone but the installer to have access to the control panel.

### Keypads

Keypads are mounted in areas close to the exit/entrance areas of your home or business to allow for convenient arming and disarming. The keypad is used to send commands to the control panel and to display system status.

### Zones

The Penta Plus security system comprises eight security zones. A zone can be defined as a protected area in your security system. Each zone can be protected by one or more detection devices such as motion sensors, magnetic contacts, glassbreak detectors shock sensors and fire sensors. When one of these detection devices is activated, it “opens” the zone to which it is connected.

### System Monitoring

Your security system can be monitored either by a monitoring service or by using the Follow-me feature. When using a monitoring service, the Penta Plus sends a message to a central station when an event occurs within your system. When the Follow-me feature is programmed, the panel contacts you when an event occurs.

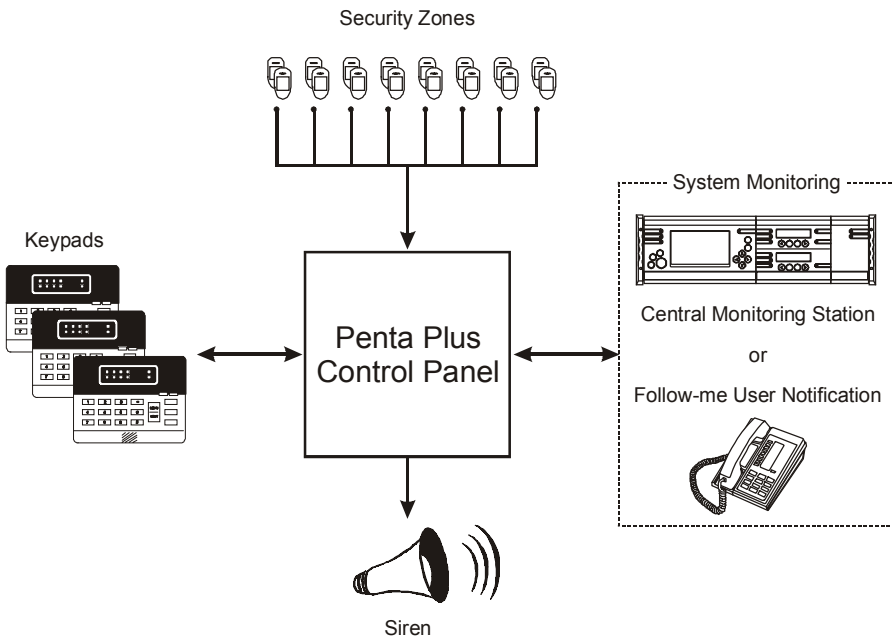


Figure 2.1: Penta Plus Security System Setup

# 3: System Operation

## 3.1: Keypad Layout

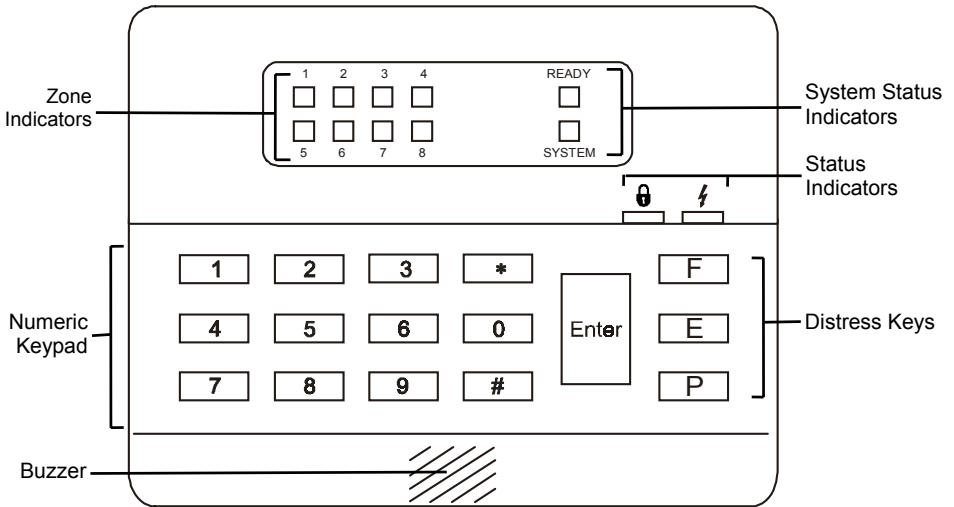


Figure 3.1: Keypad Layout

### LED Display

**1 - 8:** LEDs 1 - 8 are used to display zone status. The corresponding LED lights up if a zone is open. If a zone is bypassed the corresponding LED blinks.

**READY:** The Ready LED lights up to indicate that there are no open zones or tamper conditions and the system is ready to be armed.

**SYSTEM:** The System LED blinks to indicate that new events have been recorded in one of the logs and when displaying additional system information such as bypass mode.



**ARMED:** The Armed LED lights to indicate the system is armed or in programming mode and flashes during the exit delay.



**POWER:** The Power LED lights up when both AC & battery power are OK, blinks when the battery is low & AC power is OK, and goes out in the event of AC failure.

### 3.2: Command Codes

The Penta Plus security system is operated by entering command codes on the numeric keypad. A command is executed by pressing the '\*' button followed by the corresponding command number. In some cases, a valid user code is also required. The following is a summary of the command codes used in system operation.

*0	Quick Arm	*5 + (User Code 1)	Program User Codes
*1 + (User Code)	Bypass Mode	*6	Zone Chime
*2	Emergency/Trouble Event Log	*8 + (User Code)	Forced Arming
*3	Zone Alarm Event Log	*9 + (User Code)	Stay Arming
*41	Bell/LED Test	ENTER 1 + (User Code 1)	Stop Communications
*42 + (User Code 1)	Walk Test		

### 3.3: Keypad Tones

The keypad sounds various tones to indicate the following:

- Short Beep – Confirmation of each keystroke
- Half Second Beep – Acknowledgement of a successful command entry
- Low Beep – Rejection of an illegal command entry
- Continuous Beeps – Entry/Exit Delay in progress

### 3.4: User Codes

User codes are the codes that grant you access to various system operations, such as arming and disarming. Each user code is four digits long. Of the four user codes, only User Code 1 has the authorization to program other user codes. The default code for User 1 is '1111'. This default value must be changed immediately to prevent unauthorized access to your system.

To program user codes 1-4:

1. Press \*, 5.
2. Enter User Code 1; the Armed and System LEDs flash and the zone LEDs indicate the programming status of each user code as follows:

**OFF:** NOT PROGRAMMED  
**ON:** PROGRAMMED  
**FLASHING:** CURRENTLY BEING PROGRAMMED

3. Enter the number of the code to be changed (1-4); the requested zone LED flashes.
4. Enter the new user code; the LED stops flashing.

**Note: If the new code is identical to an existing user code, an error tone will be sounded and the new code will not be accepted.**

To erase a user code:

1. Press \*, 5.
2. Enter User Code 1.
3. Enter the number of the code to be erased (1-4); the requested zone LED flashes.
4. Enter \*, \*, \*, \*; the LED stops flashing and the code is erased.

**Note: Do not erase User Code 1! Erasing this code denies the user the ability to program user codes. If User Code 1 is accidentally erased, contact your installer.**

## Duress Code

In the event that you are forced to disarm the system, entering the duress code disarms the system and sends a silent alarm to the central station.

To program the duress code:

1. Press \*, 5.
2. Enter User Code 1.
3. Press 5; the Ready LED flashes.
4. Enter a new duress code or \*, \*, \*, \* to erase the existing code.

## 3.5: Arming/Disarming

The following section explains the various arming and disarming methods.

### Arming

To arm the system:

1. Check that all zones are closed; the Ready LED lights up to indicate that the system is ready to be armed.
2. Enter a valid user code; the keypad beeps until the end of the exit delay.

### Forced Arming

Forced arming enables you to arm the system even if zones are not secured. Electronics Line recommends waiting until all of the zones are secured and the system can be armed normally.

***Note: If zones are still not secured after the exit delay has ended, an alarm will be generated.***

To force arm the system:

1. Press \*, 8.
2. Enter a valid user code; the keypad beeps until the end of the exit delay.

### Quick Arming

This feature allows you to arm the Penta Plus without entering a valid user code.

To "Quick" arm the system:

1. Check that all zones are closed; the Ready LED lights up to indicate that the system is ready to be armed.
2. Press \*, 0; the keypad beeps until the end of the exit delay.

### Stay Arming

This feature arms perimeter zones only, allowing you to stay within the protected area while the system is armed.

To "Stay" arm the system:

1. Check that all zones are closed apart from the interior zones; the Ready LED lights up to indicate that the system is ready to be armed.
2. Press \*, 9.
3. Enter a valid user code; the keypad beeps until the end of the exit delay.

### Immediate Arming

The system can be operated without an entry/exit delay. Pressing \* during the exit delay or when the system is armed cancels both the exit and entry delay times.

## Disarming

You can disarm the Penta Plus by entering a valid user code during the entry delay. If an error is made entering the code, press '#' and enter the code again. When the code is accepted the Armed LED and the pulsed delay tone are turned off. If the correct code is not entered by the end of the delay time, an alarm will be generated.

## Keyswitch Arming/Disarming

You can arm and disarm the system using an ON/OFF keyswitch. The keyswitch has two operation modes.

- Latching - closing the keyswitch arms the system, opening disarms the system.
- Momentary - opening and closing the keyswitch either arms or disarms the system.

## 3.6: Zone Bypassing/Unbypassing

If you bypass a zone, it is ignored by the system and will not generate an alarm when tripped.

To bypass a zone:

1. Press \*, 1.
2. Enter a valid user code; the System LED flashes and the LEDs of any currently bypassed zones light up.
3. Enter the number of the zone to be bypassed; the corresponding zone LED lights up.
4. Press # to exit bypass mode; the bypassed zones flash.

To unbypass a zone:

1. Press \*, 1.
2. Enter a valid user code; the System LED flashes and the LEDs of any currently bypassed zones light up.
3. Enter the number of the zone to be unbypassed; the corresponding zone LED turns off.
4. Press # to exit bypass mode.

**Note: Disarming the system automatically unbypasses all bypassed zones.**

## 3.7: Distress Keys

In the case of an emergency, 3 types of alarms can be generated by pressing and holding down the desired distress key for more than 2 seconds. These alarms will send the relevant distress message to the central station. The distress keys are as follows:



**FIRE:** Sounds the fire bell, sends the 'Fire' event code to the central station and registers in the Emergency/Trouble event log.



**EMERGENCY:** Sends the 'Emergency' event code to the central station sounds the siren (if programmed to do so) and registers in the Emergency/Trouble event log.



**POLICE:** Sends the 'Police' event code to the central station, sounds the siren (if programmed to do so) and registers in the Emergency/Trouble event log.

### 3.8: Event Logs

The event logs record events that the system has undergone since the last arming. If any events have been recorded in either event log, the System LED flashes until the relevant event log has been viewed. In the event that a trouble condition still exists, the System LED continues to flash until the condition has been remedied.

#### Emergency/Trouble Event Log

Zone tamper, bell trouble, keypad trouble, keypad tamper or any of the three distress key alarms are registered in the Emergency/Trouble event log. If a trouble event occurs, contact your installer.

To view the Emergency/Trouble event log:

1. Press \*, 2; the various trouble conditions are indicated by the zone LEDs. The following is a summary of the trouble condition that each LED indicates:

1 - System Trouble	2 - Alarm from P key
3 - Alarm from F key	4 - Alarm from E key
2. Press # to exit the event log. **Note: In the event of system trouble, contact your installer.**

#### Zone Alarm Event Log

The Zone Alarm event log displays the zones from which an alarm was generated since the system was last armed.

To view the Zone Alarm event log:

1. Press \*, 3; an alarm from a specific zone is indicated by the corresponding zone LED.
2. Press # to exit the event log.

Both logs are automatically reset when the system is next armed.

### 3.9: Follow-me

If your system is not monitored by a central station, either the 'Follow-me' or 'Voice message' feature is used to inform you that an alarm has occurred.

When using Follow-me, the Penta Plus dials the telephone number programmed by the installer and sounds two beeps. After hearing the two beeps, pressing 3, 6, 9 or # on the telephone sounds a number of tones to indicate exactly which type of alarm has occurred. The number of tones indicates the type of alarm generated.

<b>Series of short tones</b>	=	<i>Alarm from burglary zone</i>
<b>1 long tone</b>	=	<i>F key alarm or alarm from Fire zone</i>
<b>2 long tones</b>	=	<i>E or P key alarms, zone or keypad tamper</i>

After the alarm tones have been sounded, pressing 3, 6, 9 or # on the telephone either causes the panel to hang up or, if additional alarms have occurred, sound another set of alarm tones. **Note: In the event of system trouble, contact your installer.**

Alternatively, when using the Voice message feature, a recorded message announces that an alarm has occurred. Press 3, 6, 9 or # on the telephone to acknowledge that you have received the message.

### **3.10: Additional Operations**

#### **Bell Cancel**

To cancel the bell:

- Enter a valid user code or turn the keyswitch as if disarming the system.

#### **Stop Communications**

To stop the panel from sending a message to the central station:

1. Press **ENTER**, **1**.
2. Enter User Code 1; all communications stop immediately and all unsent messages are cancelled.

#### **Zone Chime On/Off**

The keypad can be set to chime when perimeter zones are opened or closed when the system is disarmed.

To toggle the zone chime On or Off:

- Press \*, **6** while the system is disarmed.

The keypad will sound a continuous tone to indicate “Zone Chime ON” or a series of short beeps to indicate “Zone Chime OFF”.

#### **Keypad Backlight On/Off**

To toggle the backlight of any keypad On or Off:

- Press and hold down **#** for more than 2 seconds.

### **3.11: Testing the System**

Electronics Line recommends that you test your system at least once a week.

#### **Walk Test**

Walk test mode enables you to test peripheral detection devices, such as PIR detectors and magnetic door contacts. In this mode, when a zone is opened, the keypad chimes.

To perform a walk test:

1. Press \*, **4**, **2**.
2. Enter User Code 1; the Ready, System, Power and Armed LEDs flash to indicate that the system is in Walk Test mode. To end Walk Test mode, press **#**. *This mode is automatically terminated after 4 minutes.*

#### **Bell/LED Test**

To perform a bell/LED test:

- Press \*, **4**; the siren is sounded and all LEDs on the keypad are lit for a period of two seconds.

