

# INSTRUCTION MANUAL



PC500

WITH PC500RK KEYPAD

# TABLE OF CONTENTS

<b>SYSTEM INFORMATION</b>	<b>2</b>
<hr/>	
<b>INTRODUCTION</b>	<b>3</b>
Test Your System Regularly .....	3
Important Notice .....	3
Glossary .....	3
<hr/>	
<b>BASIC OPERATION</b>	<b>4</b>
Arming Your System .....	4
Disarming Your System .....	4
Silencing an Alarm .....	4
Important Note About Keypad [*] Commands .....	4
Bypassing Zones .....	5
Keypad Alarms .....	5
Utility Output Command .....	5
<hr/>	
<b>PC500RK KEYPAD</b>	<b>6</b>
<hr/>	
<b>ARMING OPTIONS</b>	<b>7</b>
About Home-Away Zones .....	7
At-Home Arming .....	7
Home-Away Arming .....	7
Quick-Arm .....	7
<hr/>	
<b>DISPLAYING SYSTEM INFORMATION</b>	<b>8</b>
System Light .....	8
Display Bypassed Zones .....	8
Display Alarm Memory .....	8
Display Trouble Conditions .....	8
<hr/>	
<b>CHANGING SYSTEM FEATURES</b>	<b>9</b>
Changing Access Codes .....	9
Door Chime On/Off .....	9
Adjusting the Keypad Sounder Tone and Backlighting .....	9
<hr/>	
<b>TESTING AND MAINTENANCE</b>	<b>10</b>
Bell Test .....	10
Weekly Testing .....	10
Maintenance .....	10
<hr/>	
<b>LIMITED WARRANTY</b>	<b>11</b>
<hr/>	
<b>FCC COMPLIANCE</b>	<b>12</b>



# INTRODUCTION

Read this manual carefully before operating your security system. Have your installer instruct you on system operation, and have your installer inform you of the features that have been enabled on your system. All users of the system should be instructed in its use. Complete the System Information page and store this manual in a safe place for future reference.

## **Test Your System Regularly**

To ensure that your system continues to function as intended, it is important that you test your system weekly. Refer to the "Testing Your System" section of this manual, and read and follow the instructions carefully. If your system does not function properly or if you have any questions about testing your system, call your installing company for service or assistance.

## **Important Notice**

***A security system cannot prevent emergencies. It is only intended to alert you of an emergency situation. Security systems are generally very reliable but they may not work under all conditions and they are not a substitute for prudent security practices or life and property insurance. Your security system should be installed and serviced by qualified security professionals who should inform you of the level of protection that has been provided, and instruct you on system operations.***

## **Glossary**

Your DSC PC500 Security System has been designed to offer advanced security features and simple, straight-forward operation. Described here are some terms that are used throughout this manual to explain the operation of your system.

**Keypad:** Your system features one or more PC500RK Keypads. The keypad is used to enter commands to operate the system, and to view operating information about the system. Information about the system is displayed on the Zone Lights, labelled 1 through 4. The keypad also features three System Status lights: "Ready", "Armed" and "System". Commands are entered on the keypad by pressing one key at a time.

**Master Code:** The Master Code is a 4-digit code used to arm and disarm the system, to program Access Codes, and to bypass zones. Normally only one person should know the Master Code.

**Access Codes:** Three Access Codes are available to allow users to arm and disarm the system and to bypass zones. Each person should keep their 4-digit Access Code secret to ensure system security.

**Entry Delay:** The Entry Delay is the period of time allowed for someone to enter the premises and disarm the system.

**Exit Delay:** The Exit Delay is the period of time allowed for someone to leave the premises after they have entered an Access Code to arm the system.

**Entry-Exit Door or Zone:** The Entry-Exit Door or Zone is the door or zone designated by your installer to be used for entering and leaving the premises when the system is armed.

**Zone:** A Zone is an area that is protected by a security device. For example, a room protected by a motion detector may be "Zone 1", while a window protected by a magnetic contact may be "Zone 2". Your installer will inform you of where zones have been set up on your system.

# **BASIC OPERATION**

## **Arming Your System**

Before arming the system, close all protected doors and windows, and stop movement in areas protected by motion detectors. When all zones are closed, all of the Zone Lights on the keypad will be OFF, and the “Ready” light will be ON.

To arm the system, enter a 4-digit Access Code. As each digit is entered, the keypad sounder will beep. When the Access Code has been entered, the “Armed” light will come ON and the keypad will beep 6 times. If an incorrect Access Code is entered, the keypad will sound a single long tone. To correct a mistake when entering a code, press the [#] Key and enter the Access Code again.

When the “Armed” light comes ON, leave the premises through the designated Entry-Exit door before the Exit Delay expires. At the end of the Exit Delay, all lights on the keypad will be shut OFF except for the “Armed” light - your system is now armed.

The factory setting for the Exit Delay is 120 seconds; your installer may change this time to suit your needs. Refer to the “Arming Options” section of this manual for information on other arming functions.

## **Disarming Your System**

Enter the premises through the designated Entry-Exit door. The keypad will sound a constant tone to indicate that the system must be disarmed.

Go to the keypad and enter an Access Code. If an error is made entering the code, press the [#] Key and enter the code again.

When a correct Access Code is entered, the “Armed” light will be shut OFF, and the sounder will be silenced - your system is now disarmed.

An Access Code must be entered before the Entry Delay expires or an alarm will sound. The factory setting for the Entry Delay is 30 seconds; your installer may change this time to suit your needs.

If an alarm occurred while the system was armed, the “System” light and the Zone Lights of the zones that went into alarm will FLASH for two minutes. Press the [#] Key to cancel the flashing display and return the keypad to the “Ready” mode. Refer to “Display Alarm Memory” for instructions on displaying the zones that went into alarm.

***IMPORTANT NOTE: If you return to the premises and find that an alarm is in progress or that there are alarms in memory, do not enter the premises as an intruder may be present. Go to a neighbour and contact the local authorities from there.***

## **Silencing an Alarm**

If the system goes into alarm and the bell or siren is sounding, the alarm may be silenced by entering an Access Code on the keypad.

## **Important Note About Keypad [\*] Commands**

The [\*] commands described in this manual allow you to access various system functions and features. It is important that all users of the system know that the [\*] commands will not function when the system is disarmed and the bell or siren is active. If an alarm is sounding, an Access Code must first be entered to silence the alarm before the [\*] functions can be used.

## **Bypassing Zones**

A “bypassed” zone will not cause an alarm. Zones may be bypassed to allow access to part of the protected area while other zones are armed. For example, you could bypass the zone protecting your living room. This would allow you to remain in the room, while the other zones on your system are armed.

With the system disarmed, enter [\*][1][Access Code] to display bypassed zones. The Zone Lights representing bypassed zones will come ON. Ensure that any zone displayed as being bypassed is intentionally bypassed. Zone bypasses are automatically cancelled when the panel is disarmed.

### **To Bypass Zones:**

Enter [\*][1][Access Code]; the “System” light will FLASH.

Enter the number of the zone to be bypassed; the corresponding Zone Light will come ON to indicate that the zone is bypassed. To remove a bypass, enter the zone number to shut its Zone Light OFF. When all desired zones are bypassed, press the [#] Key to return to “Ready”. Notice that the “System” light will be ON while the system is disarmed to indicate that zones have been bypassed.

When you arm your system, the zones you have indicated will now be bypassed. Before arming the system with bypassed zones, it is always a good idea to enter the [\*][1][Access Code] command to review the list of bypassed zones before entering an Access Code to arm the system. After ensuring that the desired zones are bypassed, press the [#] Key, and then enter an Access Code to arm the system.

When the system is disarmed, the zone bypasses will be cleared and the zone will again be active.

## **Keypad Alarms**

Three types of alarms may be activated by pressing and holding a single key on the keypad. Your installer will inform you of how the [F], [A] and [P] Keys will operate on your system.

- [F]** Press and hold the [F] Key for 2 seconds to sound an [F] Key alarm; the siren will sound with a pulsed tone. The keypad will sound a series of short beeps once the system has accepted the alarm.
- [A]** Press and hold the [A] Key for 2 seconds to generate an [A] Key alarm. The siren will not sound when this function is activated. Your installer will inform you of how this alarm will operate; this alarm may be programmed to activate a device, such as a door lock or a warning light. The keypad will sound a series of short beeps once the system has accepted the alarm.
- [P]** Press and hold the [P] Key for 2 seconds to generate a [P] Key alarm. The alarm may be programmed as either silent or audible; your installer will inform you of how this alarm will operate. If your installer has programmed this alarm to be audible, the keypad will sound a series of short beeps once the system has accepted the alarm, and the siren will sound a steady tone.

## **Utility Output Command**

A special keypad command may be used to operate various devices connected to your security system. To operate the Utility Output, enter [\*][7] on the keypad. When the command is entered, the keypad will sound a single tone for 5 seconds, and the Utility Output will be activated for 5 seconds. This command may be used to operate devices such as special lighting or door strikes.

# PC500RK KEYPAD

The “**Ready**” light will come ON when the system is ready to be armed. When the “Ready” light is OFF, there is an open zone on the system. The zone must be closed or bypassed before the system can be armed.

The “**Armed**” light will come ON to indicate that the system is armed. The “Armed” light will FLASH to indicate that the system is armed and that there is no Entry Delay on any of the zones.

The “**System**” light will come ON to indicate:

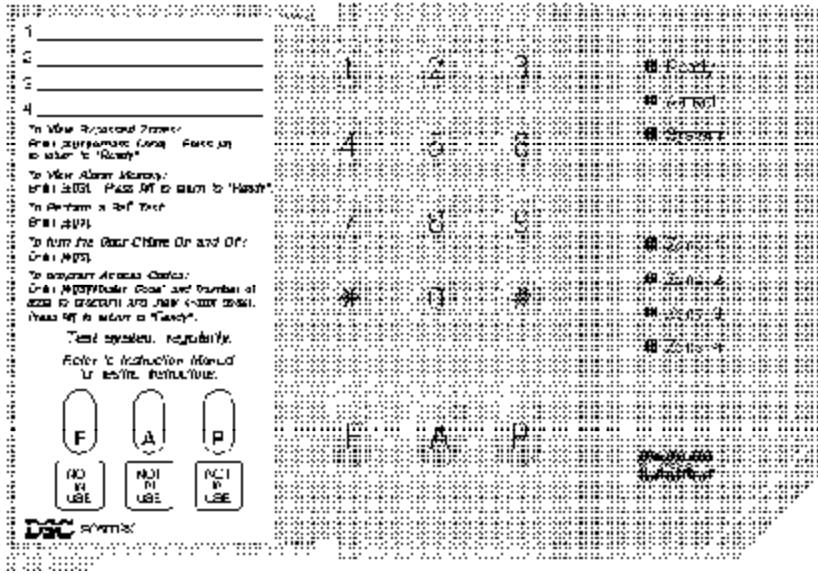
- that zones are bypassed
- there is a trouble condition on the system
- there are alarms in memory.

Use the [\*][1][Access Code] command to display the zones that have been bypassed; be sure that zones are intentionally bypassed before arming the system.

Use the [\*][2] command to display any trouble conditions; be sure to have trouble conditions corrected by your installer as soon as possible.

Use the [\*][3] command to view the alarms in memory.

**Zone Lights 1 to 4** indicate zone activity. When a zone is secure, its Zone Light will be OFF; when a zone is open, its Zone Light will be ON. If a zone goes into alarm when the system is armed, the alarm will be indicated on the zone lights until the system is disarmed.



### Press [#]:

- when an error is made in entering an Access Code, then enter the code again
- to return to “Ready” after using [\*] commands

**[F] Key:** Press and hold this key for 2 seconds to sound an [F] Key alarm

**[A] Key:** Press and hold this key for 2 seconds to generate an [A] Key alarm

**[P] Key:** Press and hold this key for 2 seconds to generate a [P] Key alarm.

### Important:

**Follow the instructions in the manual to test your system weekly. Follow the guidelines for correcting system trouble conditions; have any system trouble conditions you cannot correct yourself attended to by your installer.**

Your installer will inform you of how the Utility Output function is set up for your system.

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## **ARMING OPTIONS**

### **About Home-Away Zones**

Some zones on your system may be programmed as Home-Away Zones so that you may use the Arming Options described on this page. Home-Away Zones feature the ability to be automatically bypassed when the commands described below are entered; this saves you the trouble of having to manually bypass zones using the [\*][1][Access Code] Bypass command.

Your installer will inform you of which zones on your system are programmed as Home-Away Zones.

### **At-Home Arming**

At-Home Arming automatically bypasses the Home-Away Zones on your system, and removes the Entry Delay from the Entry-Exit Zones. This feature allows you to arm the system and remain on the premises. In addition, if any of the Entry-Exit doors are opened, an alarm will sound instantly.

To use At-Home Arming, enter [\*][9][Access Code] on the keypad. The “Armed” light will FLASH to remind you that there is no Entry Delay on the Entry-Exit doors.

### **Home-Away Arming**

Home-Away arming automatically bypasses the Home-Away Zones; the Entry Delay will still apply to the Entry-Exit zones. You may use this feature to arm the system and remain on the premises. Another household member would still be able to enter the premises through the Entry-Exit door without causing an alarm. When the Entry-Exit door is opened, an Access Code would have to be entered to disarm the system.

To arm the system with Home-Away Arming, enter an Access Code and do not open the Entry-Exit door. When the Exit Delay expires, the system will be armed with the Home-Away Zones automatically bypassed.

### **Quick-Arm**

The Quick-Arm feature allows you to enter [\*][0] to arm the system. This command is designed to allow someone to arm the system without that person having to be provided with an Access Code. When [\*][0]



is entered, the Armed light will come ON and the Exit Delay will begin; you may now leave the premises through the Entry-Exit door. At the end of the Exit Delay, the system will be fully armed.

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## **DISPLAYING SYSTEM INFORMATION**

### **System Light**

The “System” light will come ON when:

- there are Bypassed Zones on the system
- there are alarms in Alarm Memory
- there is a Trouble Condition present on the system.

If the “System” light is ON, use the commands described on this page to view bypassed zones, to display zones that went into alarm when the system was last armed, or to display trouble conditions.

### **Display Bypassed Zones**

Enter [\*][1][Access Code] to display any bypassed zones on the system. If a zone is bypassed, its zone light will come ON when this command is entered. Before arming the system, ensure that the zones indicated on the display are intentionally bypassed.

### **Display Alarm Memory**

When a zone generates an alarm, the alarm will be recorded in the system’s Alarm Memory. To display the zones that went into alarm, enter [\*][3]. The “System” light will FLASH, and the zones that went into alarm will be displayed on the flashing Zone Lights.

### **Display Trouble Conditions**

The PC500 constantly monitors itself to ensure proper operation. When a condition occurs that could affect operation, the “System” light will come ON to indicate that there is a trouble condition present on the system. If both trouble conditions are present on the system, the keypad will sound two short beeps every 10 seconds to warn of the problems.

To silence the sounder, press the [#] Key. The keypad will be silenced, but the “System” light will remain ON until the trouble condition is cleared.

To display the trouble conditions, enter [\*][2]. Trouble conditions are represented with the Zone Lights; if a Zone Light comes ON, then that trouble condition is present:

<b>Zone Light</b>	<b>Trouble</b>	<b>Cause</b>	<b>What To Do</b>
1	Battery Trouble	Battery is low	Call for service
2	AC Failure	Electricity to system is off	Check your fusebox or circuit breakers; call for service if the trouble cannot be corrected

Note that the Battery Trouble will be displayed **only** if there is also an AC Failure trouble.

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## CHANGING SYSTEM FEATURES

### Changing Access Codes

The PC500 features 4 programmable Access Codes. The first code is the Master Code, and the remaining three codes are normal Access Codes.

**Programming Access Codes:** Enter [\*][5][Master Code]; the “Ready”, “Armed” and “System” lights will FLASH. The Zone Lights will indicate which Access Codes have been programmed, and which Access Code is presently being programmed:

<b>Zone Light is...</b>	<b>Access Code is...</b>
OFF	not programmed
ON steady	programmed
Flashing	presently being programmed

When the [\*][5][Master Code] command is entered, Zone Light 1 will be ON to indicate that the Master Code is already programmed.

**Changing or Adding a Code:** To change the Master Code or Access Codes 2 through 4, enter the number of the code to be changed; the corresponding Zone Light will begin to FLASH. For example, enter [1] to change the Master Code, or enter [2] to change Access Code 2, and so on.

With the desired Zone Light flashing, enter a new 4-digit Access Code. Do not press [\*] or [#] when entering the code. If an existing code is being changed, the new code will replace the old one. After the code is entered, the keypad will beep 6 times and the Zone Light will stop flashing and remain ON.

If you want to program another code, press the number key for the code to be programmed, and enter the new 4-digit code as described above. When all desired changes are complete, press the [#] Key to return to “Ready”.

**Erasing a Code:** To erase a code, enter [\*][5][Master Code]. Enter the number of the code to be erased; the Zone Light for the code will FLASH.  
Enter [\*\*\*\*] to erase the Access Code. When all desired changes are complete, press the [#] Key to return to “Ready”.

**IMPORTANT:** Do not erase the Master Code. If the Master Code is accidentally erased, contact your installing company for assistance.

### Door Chime On/Off

The Door Chime feature causes the keypad to beep whenever an Entry-Exit Zone or an Instant Zone is activated; your installer will inform you of which zones on your system will activate the Door Chime feature.

This feature is useful if the Entry-Exit door or doors are out of view, and you would like an indication of when the door zones are opened and closed. Note that the Door Chime feature only functions when the system is disarmed.

To turn the Door Chime feature on or off, enter [\*][6]. If the feature is being turned ON, the keypad sounder will beep 3 times. If the feature is being turned OFF, the sounder will emit a single long tone.

### Adjusting the Keypad Sounder Tone and Backlighting

The sounder tone and the lighting behind the keys for each Keypad may be individually adjusted. The sounder tone may be set with a loud tone, a softer tone, or no tone at all. The backlighting can be set at medium or high brightness, or it may be turned off.

To adjust the Keypad’s sounder, press and hold the [#] Key; after two seconds, the sounder will begin to beep. With each beep, the tone of the beep will increase or decrease. When the desired tone is achieved, release the [#] Key.

To adjust the Keypads backlighting, press and hold the [ $\rightarrow$ ] Key. The zone and status lights will be shut off, and the Keypad will beep as each of the three backlighting levels is shown: medium, high and off. When the desired level is reached, release the [\*] Key. Press the [#] Key to return to the “Ready” mode.

If all power to the system is shut off, each Keypad’s tone and backlighting will be restored to the factory settings.

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## **TESTING AND MAINTENANCE**

### **Bell Test**

Entering this command will sound the siren and turn ON all the keypad lights for 2 seconds. To perform a bell test, enter [\*][4] on the keypad.

### **Weekly Testing**

It is recommended that you test your system weekly.

- 1 Disarm the system and ensure that the “Ready” light is ON.
- 2 Perform a Bell Test by entering [\*][4]. The bell or siren will sound for 2 seconds and all of the lights on the keypad will come ON.
- 3 Activate each sensor on your system in turn. For example, open protected doors and windows, and walk in areas protected by motion detectors. Each Zone Light should come ON when each zone is activated. Each Zone Light will be shut OFF when the zone is restored to normal (when the door or window is shut, or when motion stops in areas protected by motion detectors).
- 4 If they are programmed for operation, press the [F], [A], and [P] keys in turn. The [F] key will sound the bell or siren in a pulsed mode. Enter an Access Code to silence the alarm. The [A] key is a silent alarm; the [P] key may be programmed as silent or audible. If an alarm sounds, enter an Access Code to silence the alarm.
- 5 Should the system fail to operate properly, call your alarm dealer for service.

### **Maintenance**

With normal use, your system requires a minimum of maintenance. The following points should be observed:

- 1 Do not wash the keypad with a wet cloth, and do not use household cleaners, such as glass cleaners, on the keypad. Light dusting with a cloth slightly dampened with plain water should remove normal accumulations of dust.
- 2 For other system devices such as passive infrared, ultrasonic or microwave motion detectors, glassbreak detectors and so on, consult the manufacturer’s literature for testing, cleaning and maintenance instructions.
- 3 It is recommended that the back-up battery be replaced every three years. Contact your installing company for information on replacing the battery.

## **LIMITED WARRANTY**

Digital Security Controls Ltd. warrants that for a period of twelve months from the date of purchase, the product shall be free of defect in materials and workmanship under normal use and that in fulfillment of any breach of such warranty, Digital Security Controls Ltd. shall, at its option, repair or replace the defective equipment upon return of the equipment to its repair depot. This warranty applies only to defects in parts and workmanship and not to damage incurred in shipping or handling, or damage due to causes beyond the control of Digital Security Controls Ltd. such as lightning, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration or improper application of the equipment.

The foregoing warranty shall apply only to the original buyer, and is and shall be in lieu of any and all other warranties, whether expressed or implied and of all other obligations or liabilities on the part of Digital Security Controls Ltd. This warranty contains the entire warranty. Digital Security Controls Ltd. neither assumes, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

In no event shall Digital Security Controls Ltd. be liable for any direct, indirect or consequential damages, loss of anticipated profits, loss of time or any other losses incurred by the buyer in connection with the purchase, installation or operation or failure of this product.

**WARNING:** Digital Security Controls Ltd. recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.

## **FCC COMPLIANCE**

**CAUTION:** Changes or modifications not expressly approved by Digital Security Controls Ltd. could void your authority to use this equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

The user may find the following booklet prepared by the FCC useful: "How to Identify and Resolve Radio/Television Interference Problems". This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402, Stock # 004-000-00345-4

