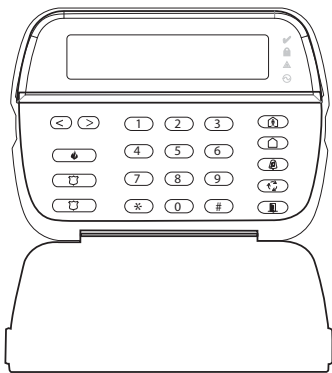


PK5500 v1.1 Installation Instructions



WARNING: Please refer to the System Installation Manual for information on limitations regarding product use and function and information on the limitations as to liability of the manufacturer.

NOTE: These instructions shall be used in conjunction with the system Installation Manual of the Control Panel with which this equipment is intended to be used.

DSC[®]

PowerSeries[™]

SECURITY SYSTEM

CE



29007496R001

The PK5500 keypad can be used on security systems with up to 64 zones. These keypads are compatible with the latest version of the following DSC security systems:

- PC580
- PC585
- PC1555MX
- PC1565
- PC1616
- PC1832
- PC1864
- PC5005
- PC5008
- PC5010
- PC5015
- PC5016
- PC5020

Specifications

- Temperature range: -10°C to +55°C (14°F to 131°F)
- Humidity (MAX): 93%RH.
- Plastic enclosure protection degree: IP30, IK04
- Voltage rating: 12Vdc nominal
- Connects to control panel via 4-wire Keybus
- 1 keypad zone input/PGM output*
- PK5500 Current Draw: 50mA (standby)/125mA (maximum)
- Wall mount tamper
- 5 programmable function keys
- Ready (Green LED), Armed (Red LED), Trouble (Yellow LED), AC (Green LED)
- Low temperature sensor: Alarm 6°C (43°F)/Restore 9°C (48°F)

NOTE: * Zone not to be programmed as Fire type or 24h type.

Unpacking

The Power keypad package includes the following parts:

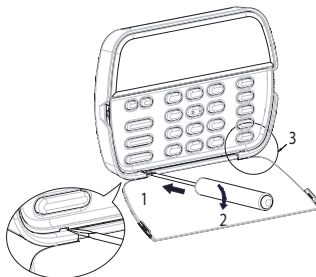
- One Power keypad
- Keypad inner door labels
- Four mounting screws
- 1 tamper switch
- 2 end-of-line resistors
- Installation Instructions

Mounting

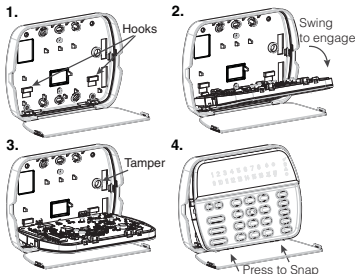
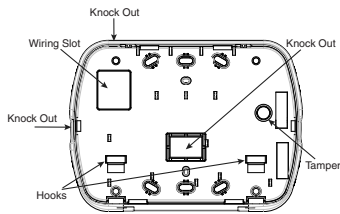
Mount the keypad where it is accessible to designated points of entry and exit. Once you have selected a dry and secure location, perform the following steps to mount the keypad.

Disassemble Keypad

1. Insert a flat head screwdriver into the provided slot (first of two).
2. Move screwdriver toward the back plastic and lift as in the following diagram. This will unhook one side of the front plastic.
3. Repeat step # 1 and 2 on the second provided slot to disconnect the front plastic and allow access for wiring.



Mount and Wire Keypad

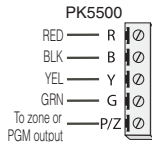


1. Secure Keypad to wall using mounting holes. Use all 4 screws provided unless mounting on a single gang box.
2. Place keypad into hooks on the backplate and swing down to engage.
3. Run wire through wiring slot or knockouts. Connect Keybus and PGM/Zone wiring to keypad. Place tamper switch into tamper hole on backplate.
4. Remove keypad from hooks. Place keypad into backplate, ensure the wire is pushed back into the wall as much as possible. Route the wire inside the keypad ensuring high components are avoided. Snap the front assembly closed, ensuring there is no pressure to the keypad from the wire below.

NOTE: If any tension found between the front keypad assembly and wiring, please open the keypad reroute the wire and close again. Repeat these steps until the keypad is closed properly.

Wiring

1. Before wiring the unit, ensure that all power (AC transformer and battery) is disconnected from the control panel.
2. Connect the four Keybus wires from the control panel (red, black, yellow and green) to the keypad terminals. Refer to diagram.
3. If programmed as an input, you can connect a device - such as a door contact - to the 'P/Z' terminal of the keypad. This eliminates the need to run wires back to the control panel for the device. To connect the zone, run one wire from the device to the 'P/Z' terminal and the other wire from the device to the B (black) terminal. For powered devices, run the red wire to the R (positive) terminal and the black wire to the B (negative) terminal. When using end of line supervision, connect the zone according to one of the configurations outlined in your system's Installation Manual.
4. If the 'P/Z' terminal is programmed as an output, the output follows the PGM programmed in Section [080]. A small relay, buzzer or other DC operated device may be connected between the positive supply voltage and the 'P/Z' terminal (maximum load is 50mA).



Applying Power

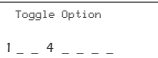
Once all wiring is complete, and the equipment is secured to the building structure with at least two screws apply power to the control panel:

1. Connect the battery leads to the battery.
2. Connect the AC transformer.

For more information on control panel power specifications, see the control panel Installation Manual.

Programming the Keypad

There are several programming options available for the keypad. These are described below. Programming the keypad is similar to programming the rest of the system. When you are in the keypad programming sections, the keypad will display which options are turned on along the top of the display. To turn an option on or off, press the number corresponding to the option on the number pad. The numbers of the options that are currently turned ON will be displayed. For example, if options 1 and 4 are on, the display will look like diagram shown on the different keypad displays.



For information on programming the rest of your security system, please refer to your system's Installation Manual.

Broadcasting LCD Labels

All LCD programming is done per keypad. If more than one LCD keypad is installed on the system, labels programmed at one keypad can be broadcast to all other LCD keypads. Perform the following procedure in order to broadcast labels:

Step 1 - Program one LCD keypad completely.

Step 2 - Make sure all LCD keypads are connected to the Keypad.

Step 3 - Enter keypad programming by pressing [*][8][Installer Code][*], then enter section [998] at the keypad that was programmed. The keypad will now broadcast all the information programmed to all the other LCD keypads on the system.

Step 4 - When the keypad is finished press the [#] key to exit.

NOTE: LCD Label broadcast from this keypad is only compatible with other PK5500 keypads.

Language Programming

Hold (<>) keys for 2 seconds to enter language programming, scroll to the desired language and Press [*] to select.

NOTE: If section [077] option 4 is OFF, language programming can only be performed while in installers programming.

Enrolling the Keypad

The keypad will need to be assigned to a partition and slot if supervision or keypad zones are being used. Keypad assignments and keypad option programming must be done at each keypad individually.

The 1st digit of keypad assignment is used to determine partition assignment (1 to 8). If partitioning is not used, enter [1]. For Global Keypads, enter [0].

The 2nd digit of keypad assignment is used to determine slot assignment for keypad supervision. Each keypad will be assigned a different slot number from 1 to 8. PK5500 LCD keypads come defaulted in slot 8. If LCD keypads are used one LCD keypad must remain in slot 8.

Enter the following at each keypad installed on the system:

1. Enter Installer Programming by pressing [*][8][Installer's Code]
2. Press [000] for Keypad Programming
3. Press [0] for Partition and Slot Assignment
4. Enter the 1st digit (0 to 8 for partition assignment)
5. Enter the 2nd digit (1 to 8 for slot assignment supervision)
6. Press the [#] key twice to exit programming.
7. After assigning all keypads, perform a supervisory reset by entering [*][8][Installer's Code][902] and wait for 60 seconds.
8. Press the [#] key to exit programming after 60 seconds.

Programming Labels

1. Enter keypad programming by pressing [*][8][Installer Code][*]. Enter the 3-digit section number for the label to be programmed.
2. Use the arrow keys (<>) to move the underline bar underneath the letter to be changed.
3. Press the number keys [1] to [9] corresponding to the letter you require. The first time you press the number the first letter will appear. Pressing the number key again will display the next letter.

[1] - A, B, C, 1 [4] - J, K, L, 4 [7] - S, T, U, 7 [0] - Space

[2] - D, E, F, 2 [5] - M, N, O, 5 [8] - V, W, X, 8

[3] - G, H, I, 3 [6] - P, Q, R, 6 [9] - Y, Z, 9, 0

4. When the required letter or number is displayed use the arrow keys (<>) to scroll to the next letter.
5. When you are finished programming the Zone Label, press the [*] key, scroll to "Save," then press [*].
6. Continue from Step 2 until all Labels are programmed.

ASCII Characters

002	#	&)	/	?	^	~	!	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	
003	!	\$	*	-	=	@	>	<	>	<	>	<	>	<	>	<	>	<	>	<	>	<	>	<	>	<	>	<	>	<	>	<	>
004	0	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	29	30	31	

Limited Warranty

Digital Security Controls warrants that for a period of 12 months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use and that in fulfillment of any breach of such warranty, Digital Security Controls 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 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. Digital Security Controls neither assumes responsibility for, 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 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 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.*

Important Information: *Changes or modifications not expressly approved by Digital Security Controls could void the user's authority to operate this equipment.*

EN50131-1 Grade 2, Class II

Operating Instructions shall be made available to the end user.

DSC erklærer herved at denne komponent overholder alle viktige krav samt andre bestemmelser gitt i direktiv 1999/5/EC.

Por este meio, a DSC, declara que este equipamento está em conformidade com os requisitos essenciais e outras determinações relevantes da Directiva 1999/5/EC.

*DSC bekräftar härmed att denna apparat uppfyller de väsentliga kraven och andra relevanta bestämmelser i Direktivet 1999/5/EC'.

Con la presente la Digital Security Controls dichiara che questo prodotto è conforme ai requisiti essenziali ed altre disposizioni rilevanti relative alla Direttiva 1999/05/CE.

Por la presente, DSC declara que este equipo está en conformidad con los requisitos esenciales y otros requisitos relevantes de la Directiva 1999/5/EC.

Hierdurch erklärt DSC, daß dieses Gerät den erforderlichen Bedingungen und Voraussetzungen der Richtlinie 1999/5/EC entspricht.

*Αίτα του παρόντος, η DSC, δηλώνει ότι αυτή η συσκευή είναι σύμφωνη με τις ουσιαστικές απαιτήσεις και με άλλες τις άλλες σχετικές αναφορές της Οδηγίας 1999/5/EC'.

Hierbij verklaart DSC dat dit toestel in overeenstemming is met de eisen en bepalingen van richtlijn 1999/5/EC.

Par la présente, DSC déclare que cet article est conforme aux exigences essentielles et autres relevantes stipulations de la directive 1999/5/EC.

DSC vakuuttaa laitteen täyttävän direktiivin 1999/5/EC olennaiset vaatimukset.

Hereby, DSC, declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

The complete R & TTE Declaration of Conformity can be found at www.dsc.com/intl/rttedirect.htm.






Keypad Enrollment

Enter keypad programming by pressing [*][8][Installer's Code][000].

[0]- Partition / Slot Assignment

Digit	Option	Valid Range	Default	
1st	Partition Assignment (0=Global Keypad)	0 to 8	1	<input type="text"/>
2nd	Slot Assignment	1 to 8	8	<input type="text"/>

[1]-[5] Function Key Assignment

	Function Key	Button	Valid Range	Default	Function	
[1]	Function Key 1 Assignment		00 to 32	03	Stay Arm	<input type="text"/>
[2]	Function Key 2 Assignment		00 to 32	04	Away Arm	<input type="text"/>
[3]	Function Key 3 Assignment		00 to 32	06	Chime On/Off	<input type="text"/>
[4]	Function Key 4 Assignment		00 to 32	14	Sensor Reset	<input type="text"/>
[5]	Function Key 5 Assignment		00 to 32	16	Quick Exit	<input type="text"/>

Keypad Function Keys

Refer to your system installation manual for a complete list of all function key options available for your system.

[00] - Null	[08] - Bypass Mode	[16] - Quick Exit	[26] - Time & Date Program
[01] - Partition 1 Select	[09] - Trouble Display	[17] - Activate Stay/Away	[27] - Partition 3 Select
[02] - Partition 2 Select	[10] - Alarm Memory	[18] - *Global Away Arm	[28] - Partition 4 Select
[03] - Stay Arm	[11] - User Programming	[19] - Command Output 3	[29] - Partition 5 Select
[04] - Away Arm	[12] - User Functions	[21] - Command Output 4	[30] - Partition 6 Select
[05] - No Entry Arm	[13] - Command Output 1	[22] - *Global Disarming	[31] - Partition 7 Select
[06] - Chime On/Off	[14] - Command Output 2	[23] - Bypass Recall	[32] - Partition 8 Select
[07] - System Test	[15] - *Global Stay Arm	[24] - Bypass Group Recall	[33] - Local PGM Activate

*Available only on the PC1616/PC1832/PC1864 version 4.2 or higher.

Keypad Programming

Enter keypad programming by pressing [*][8][Installer Code][*]

[001]-[064] Zone Label 1 to 64

ex. For Zone 1 enter section [001], for Zone 2 enter section [002] etc. Default: "Zone 1" - "Zone 64"

Section	Zone	Label
[001] to [064]	1 to 64	<input type="text"/>
		<input type="text"/>

[065] Fire Alarm Label (28 Characters)

Default: "Fire Zone"

[065]

[066] Fail to Arm Event Message

Default: "System Has Failed to Arm"

[066]

[067] Alarm When Armed Event Message

Default: "Alarm Occurred While Armed < >"

[067]

[071] First User Display Mask

Default	Option	ON	OFF
ON	<input type="checkbox"/>	1 Hold [P]anic Key prompt ON	Hold [P]anic Key prompt OFF
ON	<input type="checkbox"/>	2 Auto-arm Control/Time prompt ON	Auto-arm Control/Time prompt OFF
ON	<input type="checkbox"/>	3 Quick Arm prompt ON	Quick Arm prompt OFF
ON	<input type="checkbox"/>	4 Interior Arm prompt ON	Interior Arm prompt OFF
OFF	<input type="checkbox"/>	5 Quick Exit prompt ON	Quick Exit prompt OFF
OFF	<input type="checkbox"/>	6 Thermostat Control prompt ON	Thermostat Control prompt OFF
OFF	<input type="checkbox"/>	7 ACK All Trouble Prompt ON	ACK All Trouble Prompt OFF
OFF	<input type="checkbox"/>	8 Music Input prompt ON	Music Input prompt OFF

[072] Second User Display Mask

Default	Option	ON	OFF
ON	<input type="checkbox"/>	1 User-initiated Call-up prompt ON	User-initiated Call-up prompt OFF
OFF	<input type="checkbox"/>	2 For Future Use	
OFF	<input type="checkbox"/>	3 Walk Test prompt ON	Walk Test prompt OFF
ON	<input type="checkbox"/>	4 Command Output#1 prompt ON	Command Output#1 prompt OFF
ON	<input type="checkbox"/>	5 Command Output#2 prompt ON	Command Output#2 prompt OFF
OFF	<input type="checkbox"/>	6 Command Output#3 prompt ON	Command Output#3 prompt OFF
OFF	<input type="checkbox"/>	7 Command Output#4 prompt ON	Command Output#4 prompt OFF
OFF	<input type="checkbox"/>	8 For Future Use	

[073] Download LCD Message DurationDefault: 003 (Valid entries are 000-255), 000=Unlimited Message Disp.

This number represents the number of times the downloaded message is cleared by pressing any key while the message is up after timeout).

[074] Key Options

Default
 ON
 ON
 ON
 OFF

Option **ON**
 1 [F]ire Key Enabled
 2 For Future Use
 3 [P]anic Key Enabled
 4-8 For Future Use

OFF
 [F]ire Key Disabled
 [P]anic Key Disabled

[076] First Keypad Options

Default
 ON
 ON
 OFF
 ON
 OFF
 ON
 OFF
 OFF

Option **ON**
 1 Display Code when Programming
 2 Local Clock Display ON
 3 Local Clock Displays 24-hr Time
 4 Auto Alarm Memory Scroll Enabled
 5 Local Display of Temperature ON
 6 Bypass Options prompt ON
 7 For Future Use
 8 Auto-Scroll Open Zones ON

OFF
 Display "Xs" when Programming
 Local Clock Display OFF
 Local Clock Displays AM/PM
 Auto Alarm Memory Scroll Disabled
 Local Display of Temperature OFF
 Bypass Options prompt OFF
 Auto-Scroll Open Zones OFF

[077] Second Keypad Options

Default
 ON
 ON
 OFF
 ON
 OFF
 ON
 ON
 OFF

Option **ON**
 1 Chime Enabled for Zone Openings
 2 Chime Enabled for Zone Closings
 3 5th Terminal is Keypad PGM Output
 4 Language Selection Enabled
 5 Power LED Enabled
 6 Power LED indicates AC present
 7 Alarms always Displayed When Armed
 8 *Low Temperature Warning Enabled

OFF
 Chime Disabled for Zone Openings
 Chime Disabled for Zone Closings
 5th Terminal is Keypad Zone Input
 Language Selection Disabled
 Power LED Disabled
 Power LED indicates AC absent
 Alarms not Displayed When Armed
 Low Temperature Warning Disabled

*The Low Temperature Warning is violated at 6°C (43°F) and restored at 9°C (48°F).

[080] PGM Terminal 1

Default: 01 1-14 Follow PGM Output Number, 15 Local PGM Pulse, 16 Local PGM Toggle

[082] Local PGM Output Pulse Activation Time

Default: 00 Minutes (Valid Range 00-99)

Default: 05 Seconds (Valid Range 00-99)

[101]-[108] Partition Labels

ex. For Partition 1 enter section [101], for Partition 2 enter section [102] etc.

Section	Partition	Label
[101] to [108]	1 to 8	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

NOTE: Partition 1 Label is also used as the System Label.

[120]-[151] Command Output Labels

Default: "Command_Q/P_1" - "Command_Q/P_4"

For Partition 1 Command Q/P 1 to 4 enter [120] to [123]

For Partition 2 Command Q/P 1 to 4 enter [124] to [127]

For Partition 3 Command Q/P 1 to 4 enter [128] to [131]

For Partition 4 Command Q/P 1 to 4 enter [132] to [135]

For Partition 5 Command Q/P 1 to 4 enter [136] to [139]

For Partition 6 Command Q/P 1 to 4 enter [140] to [143]

For Partition 7 Command Q/P 1 to 4 enter [144] to [147]

For Partition 8 Command Q/P 1 to 4 enter [148] to [151]

Section	Part	Cmd. Output	Label
[120]-[151]	1to8	1to4	

[201]-[264] Door Chime Sound Programming

You can program the keypad to make up to four different door chime sounds for individual zones.

ex. For Zone 1 enter section [201], for Zone 2 enter section [202] etc.

Default	Option	ON	OFF
ON	1	6 Beeps	Disabled
OFF	2	"Bing-Bing" Sound	Disabled
OFF	3	"Ding-Dong" Sound	Disabled
OFF	4	Alarm Tone	Disabled
OFF	5-8	For Future Use	

[994][*] Initiate Global Keypad Chime Broadcast**[995][*] Reset Keypad Options to Factory Default****[996][*] Label Default****[997] View Software Version****[998][*] Initiate Global Label Broadcast****[999][*] Reset Keypad EEPROM to Factory Defaults****Keypad Display Symbols**

	8	Bypass — Indicates that there are zones automatically or manually bypassed.
	9	For Future Use
	10	Arm Mode — Indicates the mode the panel is armed in.
		Stay — Indicates that the panel is armed in the Stay Mode. It will turn on at the beginning of the Exit Delay
		Away — Indicates that the panel is armed in the Away Mode. It will turn on at the beginning of the Exit Delay
1	Fire — Indicates that there are fire alarms in memory.	
2	Memory — Indicates that there are alarms in memory.	
3	Ready Light (green) — If the Ready light is on, the system is ready for arming.	
4	Armed Light (red) — If the Armed light is on, the system has been armed successfully.	
5	System Trouble — Indicates that a system trouble is active.	
6	AC — Indicates that AC is present at the main panel.	
7	Program — Indicates that the system is in Installer's Programming, or the keypad is busy.	
	11	Chime — This icon turns on when Door Chime is enabled on the system and will turn off when Door Chime is disabled.
	12	Open — When zones are opened, this icon will turn on, and 7 segment displays 1 and 2 will scroll through the open zones.