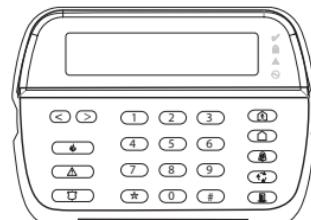


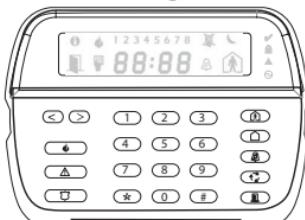
# PK55XX/RFK55XX-433

Installation Instructions, Instructions d'Installation , Instrucciones de instalación, Instruções de instalação

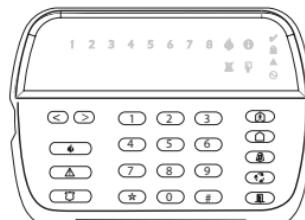
## English, Français, Español, Português



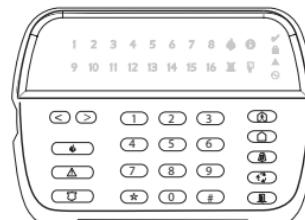
PK5500  
RFK5500



PK5501  
RFK5501



PK5508  
RFK5508



PK5516  
RFK5516

**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.

**ATTENTION:** Ce manuel contient des informations sur les restrictions concernant le fonctionnement et l'utilisation du produit et des informations sur les restrictions en ce qui concerne la responsabilité du fabricant. La totalité du manuel doit être lu attentivement.

**NOTE:** Ce manuel doit être utilisé en conjonction avec le Manuel d'installation du Panneau de contrôle.

**ATENCIÓN:** Consulte el Manual de instalación del sistema para obtener información sobre las limitaciones del uso y funciones del producto, así como las limitaciones de la responsabilidad del fabricante.

**NOTA:** Estas instrucciones deberán utilizarse conjuntamente con el Manual de instalación del sistema del Panel de control con el que se vaya a utilizar este equipo.

**AVISO:** Consulte o Manual de instalación do sistema para obter informações acerca das limitações relativas à utilização do produto e funções e informações acerca das limitações relativas à imputação de responsabilidades ao fabricante.

**NOTA:** Estas instruções devem ser utilizadas em conjunto com o Manual de instalação do sistema do painel de controlo com o qual este equipamento se destina a ser utilizado.

DSC®

PowerSeries™

SECURITY SYSTEM



29007203R002

# English

## Installation Instructions

The PK55XXX/RFK55XXX keypads can be used on security systems with up to 64 zones. These keypads are compatible with the following DSC security systems:

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

The RFK55XXX keypads combine a wireless receiver with the respective PK55XX keypad.

## Specifications

- Temperature range: -10°C to +55°C (14°F to 131°F), Temperature range for UL/ULC: 0°C to +49°C (32°F to 120°F)
- Humidity (MAX): 93%R.H.
- Plastic enclosure protection degree: IP30, IK04
- Voltage rating: 12Vdc nominal
- Connects to control panel via 4-wire Keypad
- 1 Keypad zone input/PGM output\*
- PK55XX Current draw: 50mA (standby)/125mA (maximum)
- RFK55XX Current draw: 75mA (standby)/135mA (maximum)
- Wall mount tamper
- 5 programmable function keys
- Ready (Green LED), Armed (Red LED), Trouble (Yellow LED), AC (Green LED)
- Low temperature sensor
- Frequency: 433.92MHz (RFK55XX-433 Only)
- Up to 32 wireless zones (RFK55XX Only)

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

## Unpacking

The Power keypad package includes the following parts:

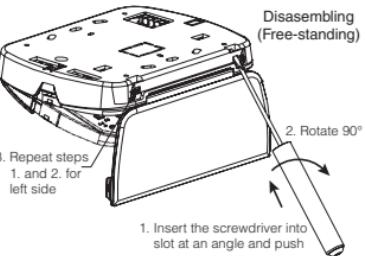
- One Power keypad
- Keypad inner door labels
- Four mounting screws
- 2 end-of-line resistors
- Installation Instructions

## Mounting

You should 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. Removing the keypad from the backplate for the first time.  
(a) Position the keypad as indicated, insert screwdriver and rotate.



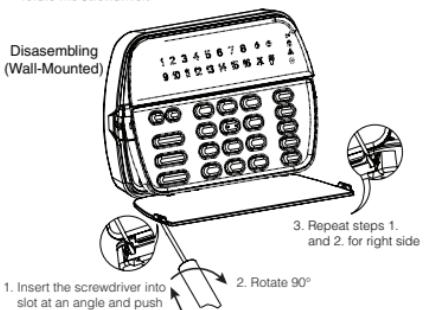
2. Removing the keypad from backplate once mounted.
  - (a) Open door, holding it 90° to the keypad, as shown below.
  - (b) Insert screwdriver into slot located under the door hinge and rotate the screwdriver.

3. Secure Keypad to wall using mounting holes. Use all 4 screws provided unless mounting on a single gang box.
4. Place keypad into hooks on the backplate and swing down to engage.
5. Run wire through wiring slot or knockouts. Connect Keybus and PGM/Zone wiring to keypad. Place tamper switch into tamper hole on backplate.
6. 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 that 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.*

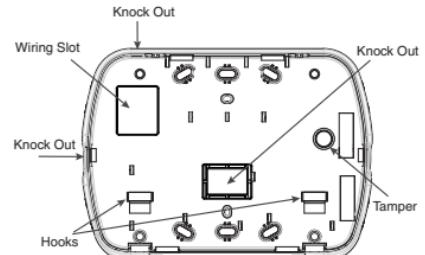
## Wiring

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






## Mount and Wire Keypad



## PK55XX/RFK55XX

RED	R
BLK	B
YEL	Y
GRN	G
To zone or PGM output	P/Z

operated device may be connected between the positive supply voltage and the P/Z terminal (maximum load is 50mA).

**NOTE:** For UL Residential Fire Installations use at least one additional DSC compatible keypad in conjunction with an RFK55XX-433 keypad or install the RFK55XX-433 keypads within 3 feet from the control unit and mechanically protect the keybus wires

## 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 this 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

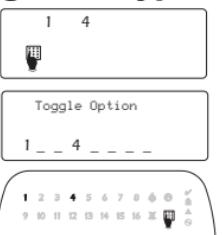
All LCD programming is done per keypad. If more than one LCD keypad is present on the system, labels programmed at one keypad can be broadcast to all other LCD keypads. Perform the following procedure in order to broadcast labels:

Step 1 - Program one LCD keypad completely.

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

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:** Label broadcast from this keypad is only compatible with other PK5500 and RFK5500 Keypads.

## Language Programming (PK5500|RFK5500 Only)

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].

**NOTE:** LED and ICON keypads cannot be programmed as Global Keypads

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 and RFK5500 LCD keypads come defaulted in slot 8. If LCD keypads are used one LCD keypad must remain in slot 8.

**NOTE:** The RFK55XX enrolls as two modules:

Light 1 = keypad section of the RFK55XX

Light 17 = receiver section of the RFK55XX

**NOTE:** Deleting all wireless devices from the RFK55XX or defaulting the RFK55XX will cause a supervisory fault.

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 (PK5500|RFK5500 Only)

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.

**NOTE:** Label Programming can also be accessed from the [**\***][**6**] User Functions Menu

## ASCII Characters

032	##	\$_	>	§	¤	/	<	?	^	¶		~	û	ç	î	ñ	ö	ü	đ
035	095	038	041	044	047	050	053	054	124	127	228	231	238	241	245	248	250	253	256
036	!\$	!	*	-	=	+	!	!	!	!	!	!	!	!	!	!	!	!	!
039	096	039	042	045	048	051	054	055	125	176	220	234	239	244	248	254	258	262	266
034	037	040	043	046	059	060	061	064	123	126	223	230	236	240	246	250	254	258	262

## Changing Brightness/Contrast

### LCD Keypads

1. Press [**\***][**6**][Master Code].
2. Use the [**<**][**>**] keys to scroll to either Brightness Control or Contrast Control.
3. Press [**\***] to select the setting you want to adjust.
4. a) 'Brightness Control': There are multiple backlighting levels. Use the [**<**][**>**] keys to scroll to the desired level.
5. b) 'Contrast Control': There are 10 different display contrast levels. Use the [**<**][**>**] keys to scroll to the desired contrast level.
6. To exit, press [**#**].

### LED/ICON Keypads

1. Press [**\***][**6**][Master Code].
2. Use the [**>**] key to move through the 4 different backlighting levels.
3. The level is automatically saved when you press [**#**] to exit.

## Changing the Buzzer Level

### LCD Keypads

1. Press [**\***][**6**][Master Code].
2. Use the [**<**][**>**] keys to scroll to Buzzer Control.
3. There are 21 different levels, use the [**<**][**>**] keys to scroll to the desired level.
4. To exit, press [**#**].

### LED/ICON Keypads

1. Press [**\***][**6**][Master Code].
2. Use the [**<**] key to move through the 21 different buzzer levels.
3. The level is automatically saved when you press [**#**] to exit.

## 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 fulfilment 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.*

## FCC Compliance Statement

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

This equipment generates and uses radio frequency energy and if not installed and used properly, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for Class B device in accordance with the specifications in Subpart "B" of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in any residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to television or radio 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
- Relocate the alarm control with respect to the receiver
- Move the alarm control away from the receiver
- Connect the alarm control into a different outlet so that alarm control and receiver are on different circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the FCC helpful: "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.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

IC:160A-RFK55XX4

The term IC before the radio certification number signifies that the Industry Canada technical specifications were met.

EN5131-1 Grade2/Class II

Operating Instructions shall be made available to the user.

DSC erklærer herved at denne komponenten 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 1999/5/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.

"Άια του περίπτωση, η DSC, δηλώνει ότι αυτή η συσκευή είναι σύμφωνη με τις απαραίτησες και με όλες τις άλλες σχετικές αναφορές της Οδηγίας 1999/5/ΕC."

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 tätteenviän direktiivin 1999/5/EC mäännäiset 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/fccdirect.htm](http://www.dsc.com/intl/fccdirect.htm).



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Tech. Support, Centre d'aide: 1-800-387-3630 (Canada, US), 905-760-3036

# 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	LED,ICON=1/LCD=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	Command Output 2	<input type="text"/>
[5] Function Key 5 Assignment		00 to 32	16	Quick Exit	<input type="text"/>

## Keypad Function Keys

Please see your system installation manual for a complete list of all the function key options available for your system.

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

## Keypad Programming

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

### [001]-[064] Zone Label 1 to 64 (PK5500\RFK5500 Only)

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"/>	

### [065] Fire Alarm Label (28 Characters) (PK5500\RFK5500 Only)

Default: "Fire Zone"

[065]

### [066] Fail to Arm Event Message (PK5500\RFK5500 Only)

Default: "System Has Failed to Arm"

[066]

### [067] Alarm When Armed Event Message (PK5500\RFK5500 Only)

Default: "Alarm Occurred While Armed < >"

[067]

## [071] First User Display Mask

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

## [072] Second User Display Mask

Default	Option	ON	OFF
ON	1	User-initiated Call-up prompt ON	User-initiated Call-up prompt OFF
OFF	2	For Future Use	
OFF	3	Walk Test prompt ON	Walk Test prompt OFF
ON	4	Command Output#1 prompt ON	Command Output#1 prompt OFF
ON	5	Command Output#2 prompt ON	Command Output#2 prompt OFF
OFF	6	Command Output#3 prompt ON	Command Output#3 prompt OFF
OFF	7	Command Output#4 prompt ON	Command Output#4 prompt OFF
OFF	8	For Future Use	

### [073] Download LCD Message Duration (PK5500\RFK5500 Only)

Default: 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	Option	ON	OFF
ON	1	[F]ire Key Enabled	[F]ire Key Disabled
ON	2	[A]uxiliary Key Enabled	[A]uxiliary Key Disabled
ON	3	[P]anic Key Enabled	[P]anic Key Disabled
OFF	4-8	For Future Use	

## [076] First Keypad Options

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

## [077] Second Keypad Options

Default	Option	ON	OFF
ON	1	Chime Enabled for Zone Openings	Chime Disabled for Zone Openings
ON	2	Chime Enabled for Zone Closings	Chime Disabled for Zone Closings
OFF	3	5th Terminal is Keypad PGM Output	5th Terminal is Keypad Zone Input
ON	4	Language Selection from Any Menu	Language Selection From Installer's
OFF	5	Power LED Enabled	Power LED Disabled
ON	6	Power LED indicates AC present	Power LED indicates AC absent
ON	7	Alarms always Displayed When Armed	Alarms not Displayed When Armed
OFF	8	Low Temperature Warning Enabled	Low Temperature Warning Disabled

## [080] PGM Terminal 1

Default: 01 | | | | PGM Output Number

## [101]-[108] Partition Labels (PK5500\RFK5500 Only)

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

Section	Partition	Label
[101] to [108]	1 to 8	

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

## [120]-[151] Command Output Labels (PK5500\RFK5500 Only)

Default: "Command\_O/P\_1" - "Command\_O/P\_4"

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

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

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

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

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

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

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

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

Section	Part	Cmd. Output	Label
[120]-[151]	1 to 8	1 to 4	

## [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	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	

## [995][\*] Reset Keypad Options to Factory Default

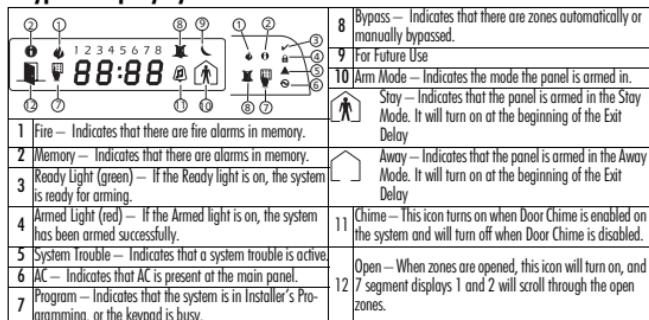
## [996][\*] Label Default (PK5500\RFK5500 Only)

## [997] View Software Version (PK5500\RFK5500 Only)

## [998][\*] Initiate Global Label Broadcast (PK5500\RFK5500 Only)

## [999][\*] Reset Keypad EEPROM to Factory Defaults

## Keypad Display Symbols



## **Wireless Integration (BEKEEXX Only)**

(RFK35XX Only)  
Compatible Wireless Devices (RFK35XX 433 Only)

**Compatible Wireless Devices** (RFK55XX-43)  
The RFK55XX can receive signals from the following devices:

- WLS914-433 Pet Immune PIR
  - WS4965 Tri-Zone Contact
  - WS4938 Panic Button
  - WS4916 Smoke Detector
  - WLS912L-433 Glass Break Detector
  - WLS904(P)L-433 Pet Immune PIR
  - WLS925L-433 Mini Door/Window Contact
  - WS49X9 Wireless Keys

## Downloading

The RFK55XX product has an integrated wireless receiver. When downloading to this keypad, please select the PC1512-433 v5.1 file. DLS2002 and greater must be used in order to have the capability of downloading to this keypad.

## Testing Wireless Devices

1. Temporarily put the wireless devices in the places you want to mount them.
  2. At a system keypad, enter [**\***][**8**][Installer Code].
  3. Enter programming section **[904]**, then enter the two digit zone number.

**NOTE:** If global placement test is enabled (Section [90], option 8 ON) enter [01] to test all zones.

4. Activate the device being tested until a result is displayed on the keypad or sounded by the keypad or bell.

Result	LED/ICON Keypad	LCD Keypad	Bell/Buzzer
Good	Light 1 ON Steady	Good	1 Beep/Squawk
Bad	Light 3 ON Steady	Bad	3 Beeps/Squawks

Activate the device until you get 3 good results in a row. Wait 10 seconds between each test on the same device. You may mount wireless devices where results were good.

Devices indicating a bad result must be moved to another location. You may only have to move the device a few inches to correct a bad result.

**NOTE:** Do not mount any device where a "bad" test result was indicated.

## Testing Portable Device Reception

To test portable devices (e.g., WS4938, WS4939) press the button(s) at several different points in the installation to confirm the coverage.

area. If these devices do not operate from all points in the installation, you will need to move the RFK55XX.

# Replacing Wireless Device Batteries

1. Remove the cover of the device from its backplate. This creates a tamper condition on the zone.
  2. Refer to the battery installation instructions on the Installation Sheet of each component. Be sure to note the proper orientation of the batteries as you install them.
  3. When the fresh batteries are in place, re-attach the cover to the backplate. The tamper is restored and the zone sends a battery trouble restoration signal to the receiver. The battery trouble is now clear and the device should function normally.

**NOTE:** When batteries in one device need to be replaced, the batteries in all devices should be replaced at the same time.

# Troubleshooting

- When I enter the 2-digit zone number when adding a wireless device, the keypad gives me a long beep.
    - You cannot enter ESNs unless the RFK55XX is properly connected to the Keybus.
  - I have entered the ESN for the device but when I violate the device, the zone does not show open on the keypad.

Check the following:

    - Ensure the ESN has been entered correctly
    - Ensure that the zone is enabled for the partition (if partition programming is used).

- Ensure that the wireless zone is not assigned to a zone used by PC5108 modules, an on-board zone or a keypad zone.

- Ensure that the zone is programmed for something other than "Null Operation" and that the wireless zone attribute is turned on.
  - 3. When I try a module placement test I get no result or "Bad" results. Check the following:
    - Verify that you are testing the correct zone
    - Verify that the correct ESN was entered when the device was enrolled
    - Verify that the device is in range of the RFK55XX. Try testing the device in the same room as the receiver.
    - Confirm that the RFK55XX is properly connected to the Keybus.
    - Check that you are testing the zone correctly. Refer to the instructions that came with the zone.
    - Check that the batteries are working and installed correctly.
    - Look for large metal objects that may be preventing the signal from reaching the RFK55XX.

- The device must be located where consistent "Good" results are obtained. If several devices show "Bad" results, or if panic pendants and wireless keys operate inconsistently, move the receiver. The LED on the motion detector does not turn on when I walk in front of the unit.

- The LED on the motion detector is for walk test purposes only. See your WLS904-433/WLS904P(L)-433 Instruction Sheet for walk test instructions.

#### **Notes:**

# Wireless Programming (RFK55XX Only)

Enter Wireless programming by pressing [\*][8][Installer's Code][804]

## [01]-[32] Wireless Device Serial Number Zone Serial Numbers Default = 000000

[01]	Zone 1		[17]	Zone 17	
[02]	Zone 2		[18]	Zone 18	
[03]	Zone 3		[19]	Zone 19	
[04]	Zone 4		[20]	Zone 20	
[05]	Zone 5		[21]	Zone 21	
[06]	Zone 6		[22]	Zone 22	
[07]	Zone 7		[23]	Zone 23	
[08]	Zone 8		[24]	Zone 24	
[09]	Zone 9		[25]	Zone 25	
[10]	Zone 10		[26]	Zone 26	
[11]	Zone 11		[27]	Zone 27	
[12]	Zone 12		[28]	Zone 28	
[13]	Zone 13		[29]	Zone 29	
[14]	Zone 14		[30]	Zone 30	
[15]	Zone 15		[31]	Zone 31	
[16]	Zone 16		[32]	Zone 32	

## [41]-[56] Wireless Key Serial Number Wireless Key Serial Numbers Default = 000000

[41]	Key 1		[49]	Key 9	
[42]	Key 2		[50]	Key 10	
[43]	Key 3		[51]	Key 11	
[44]	Key 4		[52]	Key 12	
[45]	Key 5		[53]	Key 13	
[46]	Key 6		[54]	Key 14	
[47]	Key 7		[55]	Key 15	
[48]	Key 8		[56]	Key 16	

## [61]-[68] Wireless Function Key Options

Function Key	Key 1	Default	Key 2	Default	Key 3	Default	Key 4	Default
[61]	Partition 1		03		04		27	
[62]	Partition 2		03		04		27	
[63]	Partition 3		03		04		27	
[64]	Partition 4		03		04		27	
[65]	Partition 5		03		04		27	
[66]	Partition 6		03		04		27	
[67]	Partition 7		03		04		27	
[68]	Partition 8		03		04		27	

## Keypad Function Keys

Please see your system installation manual for a complete list of all the function key options available for your system.

[00] - Null	[06] - Chime On/Off	[16] - Quick Exit	[27] - Disarm
[03] - Stay Arm	[07] - System Test	[17] - Activate Stay/Away	[28] - Fire Alarm
[04] - Away Arm	[13] - Command Output 1	[19] - Command Output 3	[29] - Auxiliary Alarm
[05] - No Entry Arm	[14] - Command Output 2	[21] - Command Output 4	[30] - Panic Alarm
[69] Wireless Keys (1-16) Partition Assignments Default = 01			

Key 1		Key 5		Key 9		Key 13	
Key 2		Key 6		Key 10		Key 14	
Key 3		Key 7		Key 11		Key 15	
Key 4		Key 8		Key 12		Key 16	

## [81] Wireless supervisory Window

Default: [NA] 96 = 24 hours / [EU] 10 = 2.5 hours | | | | | | |

The window is programmed in 15 minute increments. Valid entries are 10 to 96, equal to 2.5 to 24 hours.

## [82]-[85] Zone Device Supervision Options

Default ON	[82] Zone	Supervision ON/OFF	[83] Zone	Supervision ON/OFF	[84] Zone	Supervision ON/OFF	[85] Zone	Supervision ON/OFF
Option 1	1		9		17		25	
Option 2	2		10		18		26	
Option 3	3		11		19		27	
Option 4	4		12		20		28	
Option 5	5		13		21		29	
Option 6	6		14		22		30	
Option 7	7		15		23		31	
Option 8	8		16		24		32	

## [90] Other Options

NA Default	EU Default	Option	ON	OFF
OFF	OFF		1-4	For Future Use
ON	OFF		5	RF Delinquency Disabled
OFF	OFF		6	For Future Use
ON	OFF		7	RF Jam Detect Disabled
OFF	OFF		8	Global Placement Test

*NOTE: For UL Listed installations, the RF Jam detect feature must be enabled.*

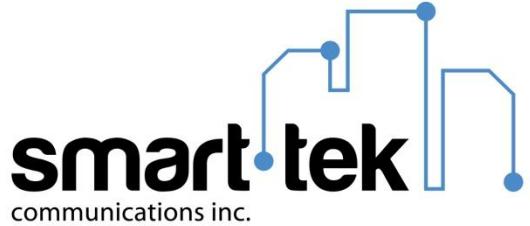
*NOTE: For DD243 installations, the RF delinquency feature should be enabled.*

*NOTE: Supervision must be enabled for RF Delinquency.*

## [93] RF Jam Detect Zone

Default: 00 | | | | | | | Valid entries = 01 - 32, 00 = No RF Jam tone selected.

Select an unused zone that will be set to the tamper state when a jamming signal is detected.



Project: **Concord Gardens PH1 - Shop Drawings List**

<b>Section 5</b>	<b>Suite Alarm System</b>
	<ol style="list-style-type: none"><li>1. DSC PC1616 Control Panel</li><li>2. DSC RFK5508 Keypad</li><li>3. DSC LC-100-PI PIR</li><li>4. DSC Vanishing Door/Window Contact</li></ol>

Enclosure box is  
11.3"x11.7"x3"  
Mounted beside or  
below suite's  
communications box

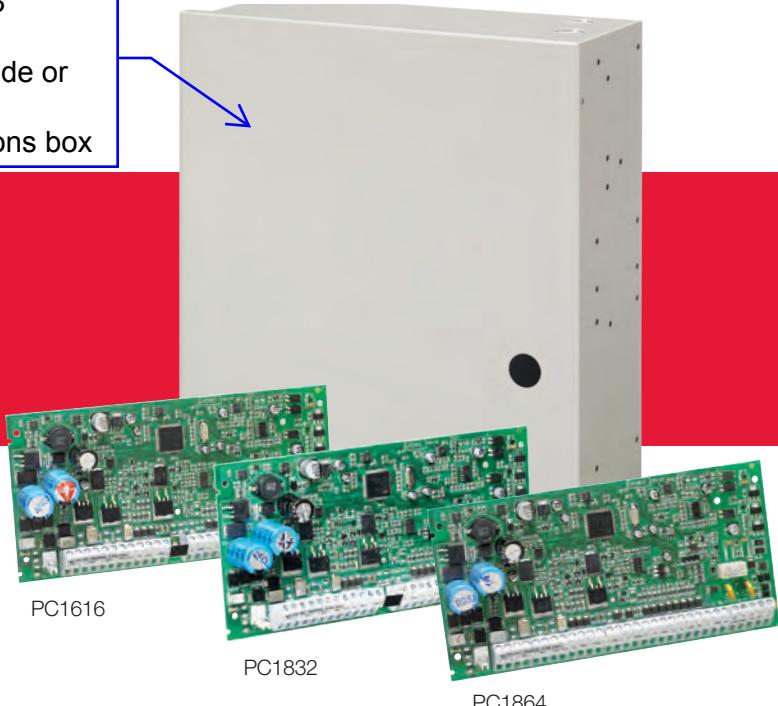
## PowerSeries v4.6 Control Panels

### Features That Make a Difference:

- Convenience of easy wireless device enrollment process
- Additional wireless zones – up to 64 in total
- Library of over 250 pre-configured labels
- Compatible with C24 Interactive

### Standard PowerSeries Features:

- Template Programming
- Account Code Error Checking
- Alternate Communications via GPRS and IP
- Local and Remote Downloading
- Programmable Daylight Savings Time
- Automatic CID
- 2-way Audio
- 1 Time Use Code
- Keypad Lockout



### PowerSeries v4.6 Control Panels: Simply Powerful

Introducing the new PowerSeries v4.6 Control Panel from DSC. This feature-rich and reliable intrusion alarm control panel easily integrates with an array of compatible components to deliver a scalable solution. PowerSeries v4.6 makes installation easy, simple and fast without compromising flexibility of design.

### Even More Available Wireless Zones

To accommodate the move to more and more wireless devices and detectors, the PowerSeries PC 1864 has 64 wireless zones – double the capacity of earlier versions. This provides the scalability and flexibility a control panel needs to support requirements both now and in the future.

### Label Programming Made Easy with Pre-loaded Library

With a library of over 250 commonly-used names in English, French and

Spanish, label programming is now a snap with the PowerSeries v4.6. Installers can now assign a unique 3-digit code to display a full descriptive label (e.g., code 190 displays 'Window'), avoiding time and mistakes with more conventional keypad entry. For additional customization, other pertinent details can also be added, such as the zone or floor to make it easy for the owner to identify faults (e.g., 'Bedroom Window').

### Convenient Wireless Device Enrollment Reduces Installation Time

Enrolling wireless devices and detectors is quick and easy with the PowerSeries v4.6 – reducing onsite installation time. With the wireless device enrollment process, installers are not required to manually program serial numbers or wireless attributes. Instead, enrollment is completed by confirming the confirm Electronic Serial Numbers (ESN), zone numbers and zone type through a series of user friendly screens.

## Compatible with C24 Interactive

The PowerSeries v4.6 Control Panel is compatible with the innovative C24 Interactive product line. Integrating these two lines provides accountability and control to end users with a scalable solution. C24 Interactive offers a range of pre-defined security options from simple notification to automated 'control and connect'. Ideal for both new and existing end users, C24 Interactive options can be easily added as requirements evolve, creating long-term and entrenched revenue streams today and tomorrow – all supported by PowerSeries v4.6.

## Simply Powerful

Put the PowerSeries v4.6 Control Panel to work at the centre of any security installation from small residential to medium-sized commercial installations. Designed with users in mind, installers now have an easy-to-install system with a range of features all backed by DSC's proven reputation. Simply powerful.

## Specifications

Power Supply	16.5 VAC/40 VA @ 50/60 Hz
Current Draw (Panel)	110 mA (Nominal)
Auxiliary & Output	13.75 ± 5% Vdc /700 mA
Bell Output	13.75 ± 5% Vdc /700 mA
Operating Environment	32° to 120° F (0° to 49° C)
Relative Humidity	93%

## PowerSeries v4.6 Features

Features	PC1616	PC1832	PC1864
On-Board Zones	6	8	8
Hardwired Zones	16 (1 x PC5108)	32 (1 x PC5108)	64 (1 x PC5108)
Wireless Zones	32	32	64
Keypad Zone Support	Yes	Yes	Yes
On-board PGM Outputs	PGM 1 = 50 mA PGM 2 = 300 mA	PGM 1 = 50 mA PGM 2 = 300 mA	PGM 1,3,4 = 50 mA PGM 2 = 300 mA
PGM Expansion	8 x 50 mA (PC5208) 4 x 500 mA (PC5204)	8 x 50 mA (PC5208) 4 x 500 mA (PC5204)	8 x 50 mA (PC5208) 4 x 500 mA (PC5204)
Keypads	8	8	8
Partitions	2	4	8
User Codes	47+ Master Codes	71+ Master Codes	94+ Master Codes
Event Buffer	500 Events	500 Events	500 Events
Battery Required	4 Ah / 7 Ah / 14 AHR	4 Ah / 7 Ah / 14 AHR	4 Ah / 7 Ah / 14 AHR
Bell Output	12 V / 700 mA (cont)	12 V / 700 mA (cont)	12 V / 700 mA (cont)

panels, keypads &amp; modules

For product information  
[www.dsc.com](http://www.dsc.com)

Product specifications and availability subject to change without notice. Certain product names mentioned herein may be trade names and/or registered trademarks of other companies.  
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A Tyco International Company

# DSC PowerSeries Keypads

## With Built-in Wireless Receivers



### Features that make a difference:

#### Common to all Keypads:

- Modern, slim-line landscape keypads
- Large, backlit keypad buttons
- 5 programmable function keys
- Programmable Input/Output terminal
- Individual FAP keys
- Multiple door chime per zone
- Adjustable backlight and keypad buzzer
- Wire channel
- Dual wall-mount and front cover tamper
- Easy-to-install mounting hinge
- Surface or single-gang box mount

### Wireless Convenience in an Attractive Package

DSC continues to lead the industry with its wireless solutions. No where is this commitment more clear than with the PowerSeries high-quality, slim-profile keypads with built-in wireless receivers.

With four optionsw to choose from, these keypads are designed with a clean, unobtrusive look that homeowners welcome and installers will appreciate for their easy programming and installation. They include all of the same features as their hardwired equivalents and are able to support 32 wireless zones and 16 wireless keys without taking up a wireless zone slot.



RFK5500

RFK5501

RFK5508

RFK5516

panels, keypads & modules

Contact your DSC distributor  
[www.dsc.com](http://www.dsc.com) | 1-888-888-7838



# DSC

A Tyco International Company

## Feature Rich

The keypads feature an input/output terminal that can be programmed to operate as a zone input, programmable output or as a low temperature sensor. The keypads also include adjustable backlit keys that address low-light situations. The RFK5500 64-zone full-message keypad supports eight languages, global partition status and full, 32-character programmable phrases.

## Easy To Use

To simplify usage, the keypads feature five programmable keys for easy one-button activation of system functions. The default tasks assigned to the five function keys are stay arming, away arming, door chime, smoke detector reset and quick exit. With the quick exit function there's no need to disarm and re-arm the system every time an occupant leaves the house or lets the dog out, for example.

## Wireless Convenience

DSC offers a large portfolio of reliable wireless devices and detectors to help make your toughest installations simpler. The integrated DSC approach has resulted in an unparalleled spectrum of unique interchangeable component alternatives. They can be configured for every circumstance, providing safe, reliable protection.

- Revolutionary reliability
- Long-life lithium batteries
- Attractive, compact designs
- New technology for greater signal range and accuracy

Some products you will definitely want to consider are:

- WS4945 Wireless Door/Window Contact
- EV-DW4975 Vanishing Contact
- EV-DW4917 Wireless Recessed Door Transmitter
- WS4916 Wireless Photoelectric Smoke Detector
- WLS914-433 Wireless Pet-Immune Passive Infrared Detector
- WS4965 Tri-Zone Wireless Door/Window Contact
- WS4913 Wireless Carbon Monoxide Detector
- WS4939 4-Button Wireless Key

*And many more. Ask your distributor for details.*

## Compatibility

The keypads are compatible with all PowerSeries control panels and all 433 MHz wireless devices from DSC.

## Specifications

Dimensions.....	6 1/16" x 4 7/16" x 13/16" (154 mm x 113 mm x 20.5 mm)
LCD Viewable Area.....	3 9/10" x 15/16" (99 mm x 24 mm)
Current Draw .....	125 mA (Max)
Voltage .....	12 VDC Nominal
Operating Environment .....	32° to 120° F (0° to 49° C)
Relative Humidity.....	5 to 93%

## Ordering Information:

RFK5500.....	433 MHz Wireless 64-Zone Full-Message LCD Keypad
RFK5501 .....	433 MHz Wireless 64-Zone LCD Picture ICON Keypad
RFK5516.....	433 MHz Wireless 16-Zone LED Keypad
RFK5508.....	433 MHz Wireless 8-Zone LED Keypad

## Full message LCD Keypad languages supported:

Croatian, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Italian, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Slovak, Spanish, Swedish

## Digital PIR Detector with Pet Immunity **LC-100-PI**

### Features That Make a Difference:

- Form 'A' alarm contact and tamper switch
- Digital signal analysis
- Slim profile design
- Features ABS plastic for shock and impact protection
- Exceptional white light immunity
- Pet immunity up to 55 lbs (25 kg)
- Quad Linear Imaging Technology for sharp analysis of body dimensions and differentiation from backgrounds and pets
- Advanced ASIC-based electronics Compact design for residential installations
- Adjustable variable pulse count
- PIR sensitivity adjustment
- Height installation calibration free
- Available in packages of 6 (LC-100-PI-6PK)



**Whether it's a residential or commercial installation, the LC series of detection devices readies a security system for the unexpected by providing protection for every room, corner and corridor.**

The LC-100-PI effectively blends performance with competitive pricing. The detector features intelligent signal analysis for reliable detection, pet immunity up to 55 lbs (25 kg) and a slim design that complements any décor.



## Reliable Protection

Advanced ASIC-based processing provides both superior detection and false alarm rejection to help keep people and possessions secure. Quad Linear Imaging Technology provides sharp analysis of body dimensions and differentiation from backgrounds and pets.

## Digital Signal Processing

Effective motion detection is dependent on a sensor's ability to identify intruders and provide true false alarm resistance. The LC series of detection devices pinpoints intruders through digital signal processing. Digital information is more accurately analyzed using software and is not subject to signal degradation caused by amplification, noise, distortion or signal clipping.

## Pet Immunity

Highly accurate sensors are able to provide quality detection while at the same time ignoring pets weighing up to 55 lbs (25 kg).

## Fast and Easy Installation

Once the detector is installed at the recommended height, installers simply conduct a brief walk-test, make any necessary adjustments, and the unit is ready to perform. Highly visible LEDs can be viewed at a glance and help the installer identify the detection range from any distance or angle within the coverage pattern.

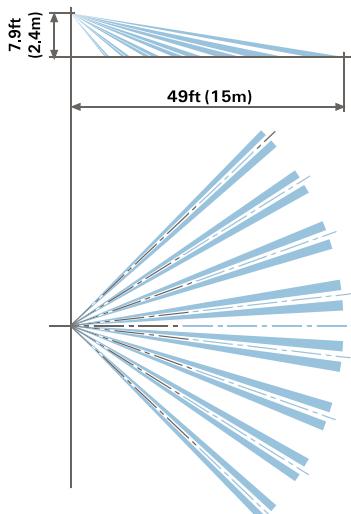
## Locating the Detector

When choosing a location for the detector, be sure to consider the following:

- Do not aim the detector at reflective surfaces
- Avoid locations that are subject to direct high air flow
- Do not locate the detector in the path of direct or reflected sunlight
- Do not place next to large obstructions that may limit the coverage area

## Coverage Pattern

LENS PATTERN



## Detection Range Adjustment

The detection range of the motion detector is adjustable to from 16' to 49' (5 m to 15 m). A potentiometer can be adjusted clockwise or counter-clockwise to increase or decrease the range respectively. For optimum performance, range should be adjusted so that it effectively protects the dimensions of the intended area.

## Specifications

Dimensions.....	3.62" x 2.46" x 1.57" (92 mm x 62.5 mm x 40 mm)
Weight.....	58 gr (2.04 oz)
Detection Method.....	Quad (Four Element) PIR
Power Input .....	9.6 to 16 VDC
Current Draw (Standby) .....	8 mA ( $\pm$ 5%)
Current Draw (Active) .....	12 mA ( $\pm$ 5%)
Tamper Switch: Contact Rating .....	0.1 Amp @ 28 VDC
RFI Protection .....	10 V/m plus 80% AM from 80-2000 MHz



From Tyco Security Products

## Wireless Vanishing Door/Window Contact **EV-DW4975**



### Features That Make a Difference:

- Wafer-thin profile
- Long-life lithium battery included
- 5/8" (16 mm) maximum magnet gap
- Double-sided tape (included)
- Smooth-back plastics
- Reliable 433 MHz technology

### Installs in Seconds & Virtually Vanishes

Among the smallest wireless door/window contact currently available, the wafer-thin profile of the EV-DW4975 provides a streamlined, practically non-existent look once installed. The contact can be easily mounted to a window frame with double-sided tape, eliminating the need for drilling. This not only reduces installation times but also retains the integrity of window warranties. A generous magnet gap of 5/8" (16 mm) easily accommodates larger door or window frames. The EV-DW4975 is built with reliable 433 MHz technology and is compatible with all current DSC wireless receivers.

### Value Added

Significantly smaller than competitor door/window contacts, the EV-DW4975 is housed within a compact casing that allows it to be used for the tightest-fitting installations. Once installed, the contact is inconspicuous and complements the décor of most homes. It is built with reliable 433 MHz technology, uses a long-life lithium battery and is compatible with all current DSC wireless receivers.

## Compatibility

The EV-DW4975 is compatible with the following receivers:

- IMPASSA Self-Contained 2-Way Wireless Security System
- ALEXOR 2-Way Wireless Security System
- SCW9045/9047 Self-Contained Wireless Security System
- PowerSeries Wireless Receivers PC5132-433 / RF5132-433 / RF5108-433 / TR5164-433
- PowerSeries RFK Keypads RFK55XX-433
- MAXSYS Wireless Receivers PC4164-433 / RF4164-433
- WS4920 Wireless Repeater

## Specifications

Dimensions.....	2 1/4" x 1" x 15/64" (57 mm x 25.4 mm x 5.9 mm)
Battery .....	CR2032 (3V Lithium)
Battery Life .....	5-8 Years (Typical)
Operating Temperature.....	-10° to 50°C (14° to 122°F)
Relative Humidity.....	5% to 93%