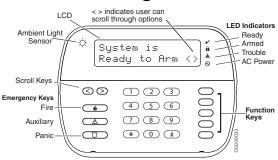# Digital Security Controls

Publications Cover Sheet

Part Number: 29007335R001

Revision: 001

Release Number: 7391

Notes: For field trial only

Description: WT5500 (433/868) INIS ENG

Type: 33-01   8.5 x 11 White (Paper)

Pieces: 1

Printing Instructions: Master Size: 8.5 X 11
Number of Sheets in Master: 2
2 - Sided Printing
Cover Printing Not Required
Finishing: Not Applicable
Notes: Fold to 4.25 X 5.5   Ensure that bar code is visible.
Note: Booklets more than 10 sheets must be trimmed.

WT5500 Installation Instructions

English

< > indicates user can scroll through options

LCD

Ambient Light Sensor

```
System is
Ready to Arm <>
```

LED Indicators
- Ready
- Armed
- Trouble
- AC Power

Scroll Keys

Emergency Keys
- Fire
- Auxiliary
- Panic

Function Keys

DG0009/03

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.*

These instructions are to be used in conjunction with the appropriate Control Panel Installation Manual, with which this equipment is intended to be used.

This Installation Sheet applies to the following models: WT5500-433 / WT5500-868 / WT5500P-433 / WT5500P-868.

Operating Instructions shall be made available to the user.

Do not dispose the waste battery as unsorted municipal waste. Consult your local rules and /or laws regarding recycling of this battery, it will help protect the environment by reducing the number of batteries consumed. Some of the materials that are found within the battery could become toxic if not disposed properly and/or may affect the environment, and indirectly everybody's health.

CE

DSC

29007335R001

Installation Instructions

The WT5500 Wire-Free Keypad is designed to work with the PC9155 Wireless Panel. Since the PC9155 is mounted in a secure location within the home, the WT5500 is the main interface to the system.

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

Power Adaptor Output Voltage: 4.5VDC @ 0.5A
Models - US/Latin America: SA103A-0506-6U; Canada: SA103A-0506-6; EU: SA103A-0506G-6; UK: SA106C-05BS; AUS./NZ: SA106C-05AS; China: SA106C-05HS.

Battery: 4 AA, 3V, Energizer Alkaline

WT5500 Current draw: 50mA

Wall-mount tamper

5 programmable function keys

Ready (Green LED), Armed (Red LED), Trouble (Yellow LED), AC (Green LED)

Frequency: 433.92MHz (WT5500-433/WT5500P-433 only)

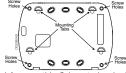Frequency: 868.35MHz (WT5500-868/WT5500P-868 only)

Unpacking

The WT5500 keypad package is available in five distinct configurations, Wall mount, Wall mount w/Proximity, Desk Stand, Accessory Kit and Proximity Tags Only. The contents of each are described below.

WT5500 - WALL MOUNT
- 1 WT5500 Keypad
- 1 WT5500BRK Wall Bracket
- 1 Installation Manual
- 1 Inner Door Sticker
- 4 AA Batteries
- 1 Hardware Pack

WT5500D - DESK STAND
- 1 WT5500 Keypad
- 1 WT5500DMK Desk Stand
- 1 WT5500BRK Wall Bracket
- 1 Installation Manual
- 1 Inner Door Sticker
- 1 Power Adaptor
- 4 AA Batteries
- 2 Hardware Packs

WT5500DMK - ACCESSORY KIT
- 1 WT5500DMK Keypad
- 1 Hardware Pack
- 1 Power Adaptor

WT5500P - WALL MOUNT/PROX TAG
- 1 WT5500P Keypad
- 1 WT5500BRK Wall Bracket
- 1 Installation Manual
- 1 Inner Door Sticker
- 4 AA Batteries
- 1 Hardware Pack
- 1 PT4 or PT8 Prox Tag (433MHz/868MHz)

PROXIMITY TAGS ONLY
- 1 PT4 or PT8 Prox Tag (433MHz/868MHz)
- 1 Installation Manual

Mounting

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

Wall Mounting Plate

1. Locate the screw holes (4) at each corner of the mounting plate.

Screw Holes

Mounting Tabs

2. Use the four screws provided to affix the mounting plate to the wall, ensure the mounting tabs are facing you (see above diagram).
3. Align the four mounting slots in the WT5500 housing with the four mounting tabs protruding from the mounting plate.
4. Slide the keypad into place.
5. Firmly but carefully snap the keypad down onto the mounting plate.
6. To fasten the keypad more securely onto the mounting plate, locate the two screw holes in the bottom of the mounting plate then using the two screws provided in the hardware pack, screw the keypad into place.
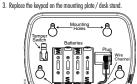
Desk Stand - WT5500D

1. Insert the four rubber feet (found in the hardware pack) into the indentations provided in the bottom of the desk stand.

2. Place the desk stand on a secure, uncluttered surface.
3. Align the four mounting slots in the WT5500 housing with the four mounting tabs protruding from the desk stand.
4. Slide the keypad into place. Firmly but carefully snap the keypad down onto the desk stand.
5. To fasten the keypad securely onto the desk stand, locate the two holes in the top corners of the back of the desk stand, then using the two screws provided screw the keypad to the desk stand.

Apply Battery Power

1. Slide the keypad up and out from the mounting plate/desk stand (removing the screws first if required). The bay for the four AA batteries is open and visible at the back of the keypad.
2. Insert the batteries as directed on the back of the keypad. Ensure the correct polarity is observed.

3. Replace the keypad on the mounting plate / desk stand.

Tamper Switch
Mounting Holes
Batteries
Plug
Wire Channel
Mounting Holes

Apply AC Power

1. Slide the keypad up and out from the mounting plate / desk stand.
2. Locate the power adaptor jack at the back of the keypad housing.
3. Place the adaptor plug in the housing indentation, perpendicular to the keypad. Insert the adaptor plug firmly into the jack.
4. Pivot the adaptor plug downwards so that it fits flush with the housing. Guide the AC wire along the channel provided in the keypad housing; the wire will finally extend through the bottom of the housing.
5. Replace the keypad on the mounting plate/desk stand (in the latter case, a further channel is provided in the bottom of the desk stand). Guide the AC wire along this channel; the wire will finally extend through an opening in the back of the stand).
6. Plug the adaptor into a wall outlet.

NOTE: Only use the power adaptor (4.5VDC, 0.5A, 2.25W) supplied with the kit.

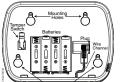**CAUTION:** The socket-outlet in which the direct plug-in adaptor is inserted, must be close to the keypad and easily accessible. The plug of the adaptor serves as a means of disconnection from the supply mains.

Programming the Keypad

There are several programming options available for the keypad (see below). Programming the keypad is similar to programming the rest of the system. To turn an option on/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 along the top of the LCD. For information on programming the rest of your security system, please refer to your system's Installation Manual. A maximum of four keypads can be on the system at any one time.

Language Programming

Hold the (< >) keys for 2 seconds to enter language programming. Scroll to the desired language and press [✱] to select.

If Section 075, Option 4 is turned off, language programming can only be performed while in installers programming.

Enrolling the Keypad

The WT5500 must be configured in tandem with the PC9155 in order for the system to function as desired.

1. Turn on the PC9155. The panel will be alert to any keypad enrollment activity for a period of two minutes. Note that the PC9155 Ready and AC LEDs will be flashing for this two-minute period.
2. A WT5500 must be turned on during this two-minute period for it to be assigned to the PC9155.
3. Simultaneously press and hold [✱] and [1]; by doing so you force the keypad to broadcast its ESN (Electronic Serial Number).
4. When the keypad has been successfully enrolled - this should take less than 5 seconds - on the system, the message 'Enrollment Successful' will be displayed on the keypad LCD for five seconds. The Ready and AC LEDs will return to their previous state.
5. Repeat steps 3 and 4 on each additional keypad to be enrolled.

Programming Labels

1. Use this section to assign a meaningful name (e.g. Front Door, Hallway, etc.) to each zone.
2. Enter keypad programming by pressing [✱][8][Installer Code][✱]. Enter the 3-digit section number for the label to be programmed.
3. Use the arrow keys (< >) to move the cursor underneath the letter to be changed.

[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. Press the number keys 1 through 9, corresponding to the letter you require. For example, pressing number key 2 once will display the letter D; pressing it again will display the letter E; pressing it a third time will display the letter F, and so on.
5. When the required letter or number is displayed use the arrow keys (< >) to scroll to the next letter.
6. When you are finished programming the Zone Label, press [✱]. Scroll to 'Save' and press [✱] again.
7. Repeat Steps 2 through 5 until all Labels are programmed.

ASCII Characters

Broadcasting LCD Labels

LCD programming is done using the 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 in order to broadcast labels:

---

1. Program one LCD keypad completely.
2. Enter keypad programming by pressing [✱][8][Installer Code][✱] at the keypad that was programmed.
3. Enter Section [998]. The keypad will broadcast the label programming to the PC9155. The PC9155 will then broadcast the label information to other WT5500 keypads that have been enrolled by way of 2-way wireless.

NOTE: This operation may take several minutes.

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

NOTE: Label broadcast from this keypad is only compatible with other WT5500 keypads.

Changing Brightness/Contrast

1. Press [✱][6] [Master Code].
2. Use the arrow keys (< >) to scroll to Brightness or Contrast Control.
3. Press [✱] to select the setting you want to adjust.
4. Brightness Control: There are multiple backlight levels. Use the arrow keys (< >) to scroll to the desired level. Press [✱] to select.
5. Contrast Control: There are four different display contrast levels. Use the arrow keys (< >) to scroll to the desired contrast level. Press [✱] to select.
6. To exit, press [#].

NOTE: During battery operation, the keypad uses the ambient light sensor ☼ to automatically adjust the backlighting brightness levels in order to conserve battery life.

Changing the Buzzer Level

1. Press [✱][6] [Master Code].
2. Use the arrow keys (< >) to scroll to Buzzer Control. Press [✱] to select.
3. Use the arrow keys (< >) to scroll to the desired buzzer level among the 21 available selections. Press [✱] to select.
4. To exit, press [#].

Keypad LED Symbols

Symbol		Description
✔	Ready Light (green)	If the Ready light is on, the system is ready for arming.
🔒	Armed Light (red)	If the Armed light is on, the system has been armed successfully.
⚠	System Trouble (yellow)	Indicates that a system trouble is active.
⊘	AC (green)	Indicates that AC is present at the keypad.

Proximity Tags (WT5500P only)

Prox Tag Reader

```
System is
Ready to Arm <>
```

DG0001S3

You can use the proximity tag to perform any keypad function that would normally require a user access code. Simply present the tag to the target icon or to the left of the keypad LCD.

Enrolling proximity tags

Enrolling a tag with one keypad will enroll it automatically to all WT5500P keypads enrolled on the system.

1. Enter [✱][5][Master Code]. You will enter the *User Code Edit Select* menu.
2. Enter a two-digit User Code slot (01-16, 40) to be associated with the proximity tag. Alternatively, scroll to the two-digit user number and press the [✱] key. You will enter the *New Code Edit* menu.
3. Enter the four- or six-digit New Code. The LCD will prompt you to swipe your proximity tag. Otherwise, press the [#] key to exit.
4. Present your proximity tag to the keypad. If enrollment is successful, acknowledgement beeps will sound and the keypad LCD will read 'Tag Enrolled Successfully'. If the proximity tag has been enrolled previously, an error tone will sound. The LCD will read 'Duplicate Tag/User Code'.
5. The keypad will return to the *User Code Edit Select* menu.

Deleting proximity tags

Delete the prox tags from the system when they are lost or no longer needed.

1. Enter [✱][5] [Master Code] on the keypad.
2. Enter or select the User Code slot you wish to delete. You will enter the *User Code Edit Select* menu.
3. Press [✱] to delete both the user code and the proximity tag.

NOTE: User code can only be deleted individually.

NOTE: User 40 - Master Code cannot be deleted; a deletion attempt on this user code will delete the proximity tag only.

NOTE: A user code, once deleted, must be re-enrolled before it can be used again.

NOTES:

Keypad Function Key Programming

Enter keypad programming by pressing [✱][8][Installer Code][✱][000]. Press 1 through 5 for individual function key programming.

[1]-[5] Function Key Assignment

	Function Key Button	Valid Range	Default	Function	
[1]	Function Key 1	00 - 33	03	Stay Arm	|_____|
[2]	Function Key 2	00 - 33	04	Away Arm	|_____|
[3]	Function Key 3	00 - 33	06	Chime On/Off	|_____|
[4]	Function Key 4	00 - 33	08	Bypass	|_____|
[5]	Function Key 5	00 - 33	16	Quick Exit	|_____|

Keypad Function Keys

Please see your system installation manual for more details on the function key options below.

[00] - Null
[01] - For Future Use
[02] - For Future Use
[03] - Stay Arm
[04] - Away Arm
[05] - No Entry Arm
[06] - Chime On/Off
[07] - For Future Use
[08] - Bypass Mode
[09] - [12] - For Future Use
[13] - Command Output 1
[14] - Command Output 2
[15] - For Future Use
[16] - Quick Exit
[17] - Activate Stay/Away Zones
[25] - Instant Stay Arm
[33] - Night Arm

Keypad Programming

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

[001]-[034] Zone Label 1 to 34 (Default: 'Zone _01' - 'Zone _34')
E.g. For Zone 1 enter section 001, for Zone 2 enter section 002, etc.

Section	Zone	Label
[001] to [034]	1-34	|__|__|__|__|__|__|__|__|__|__|__|__|__|__|

[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] \|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|

[068] Command Output 1 Label
Default: 'Command_O/P_1'

[068] \|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|

[069] Command Output 2 Label
Default: 'Command_O/P_2'

[069] \|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|

[074] First Keypad Options

Default		Opt.	ON	OFF
ON	|_____|	1	Fire Key Enabled	Fire Key Disabled
ON	|_____|	2	Auxiliary Key Enabled	Auxiliary Key Disabled
ON	|_____|	3	Panic Key Enabled	Panic Key Disabled
OFF	|_____|	4	Quick Arm Prompt ON	Quick Arm Prompt OFF
OFF	|_____|	5	Quick Exit Prompt ON	Quick Exit Prompt OFF
OFF	|_____|	6	Bypass Options Prompt ON	Bypass Options Prompt OFF
OFF	|_____|	7	User Initiated Call-up Prompt ON	User Initiated Call-up Prompt OFF
OFF	|_____|	8	Hold Key [P] Prompt ON	Hold Key [P] Prompt OFF

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[075] Second Keypad Options

Default		Opt.	ON	OFF
ON	|_____|	1	Local Clock Display ON	Local Clock Display OFF
OFF	|_____|	2	Local Clock Displays 24-hr Time	Local Clock Displays AM/PM
OFF	|_____|	3	Auto Alarm Scroll ON	Auto Alarm Scroll OFF
OFF	|_____|	4	Language Selection Available From Any Menu	Language Selection Available in Installer's
ON	|_____|	5	Power LED Enabled	Power LED Disabled
ON	|_____|	6	Power LED Indicates AC Present ON	Power LED Indicates AC Present OFF
OFF	|_____|	7	Alarms Displayed While Armed	Alarms Not Displayed While Armed
OFF	|_____|	8	Auto-Scroll Open Zones ON	Auto-Scroll Open Zones OFF

[076] Third Keypad Options

Default		Option	ON	OFF
OFF	|_____|	1	For Future Use	For Future Use
OFF	|_____|	2	For Future Use	For Future Use
OFF	|_____|	3	For Future Use	For Future Use
OFF	|_____|	4	For Future Use	For Future Use
OFF	|_____|	5	Late to Open Prompts	Late to Open Prompts
ON	|_____|	6	Power Save Mode ON	Power Save Mode OFF
OFF	|_____|	7	For Future Use	For Future Use
OFF	|_____|	8	For Future Use	For Future Use

[077] LCD Message

[077] \|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|

[078] Download LCD Message Duration

Default: 003 \|_____\| (Valid entries are 000-255), 000＝Unlimited Message Display
This number represents the number of times the downloaded message is cleared by pressing any key after the message has timed out.

---

[100] CO Detector Alarm Label
Default: 'CO_Alarm_Evacuate_Area'

Section/Label

[100] \|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|

[101] System Label
Default: 'System'

Section/Label

[101] \|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|

[120] Partition 1 Command Output #1
Default: 'Command_O/P_1'

Section/Label

[120] \|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|

[121] Partition 1 Command Output #2
Default: 'Command_O/P_2'

Section/Label

[121] \|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|__\|

[996] Reset Programmable Labels to Factory Defaults
[997] View Software Version
[998] Global Label Broadcast
[999] Reset Keypad Programming to Factory Defaults

NOTES: