
• W A R N I N G •

This manual contains information on limitations regarding product use and function and information on the limitations as to liability of the manufacturer.

Installation Manual



PC5132XS-433 NA

Version 5.0

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Products which Digital Security Controls Ltd. determines not to be repairable will be replaced by the nearest equivalent product available at that time. The current market price of the replacement product will be charged for each replacement unit.

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Thank you for purchasing the PC5132 Wireless Receiver. This product is the result of several years of development and will allow you to connect up to 32 wireless detection devices to the PC585, PC1565, and the Power series control panels.

The PC5132 operates at 433 MHz. It provides several advantages:

- supervisory transmissions are sent every 12 minutes.
- programmable supervisory window can be as long as 24 hours
- diversity antenna arrangement for better RF reception

In addition, the PC5132 features:

- **6 digit serial numbers for all wireless devices:** These new serial numbers include hexadecimal digits. *Please read Section 3.1 "A note on Electronic Serial Numbers (ESN)" for more information on enrolling 6-digit devices.*

We are confident you will find the PC5132 Wireless Receiver a unique and useful control panel enhancement.

Introduction

S E C T I O N 1

This manual describes how to install, program and maintain the PC5132. Before you install the PC5132 module, you should have completed the following steps in your system installation:

1. Plan the installation and wiring of the security system (see your system *Installation Manual*)
2. Install the control panel, and install and enroll at least one keypad to use for programming.
3. Install and enroll any hardwired zone expander modules (PC5108) you plan to use.

NOTE: *PC5108 zone expander modules occupy zones in 2 groups of 4 (e.g. zones 9-12 and zones 13-16). None of the zones assigned to a PC5108 module may be used for wireless devices.*

Program the PC5132 from a system keypad or using downloading software on a remote computer (e.g., DLS-3). Read your system *Installation Manual* for more information.

1.1 How to use this Manual

Read this manual before you begin installing the PC5132. To install and set up the PC5132 and wireless devices, follow these steps. Refer to the sections listed below.

1. Temporarily mount and wire the PC5132 module (see *Section 2*)
2. Enroll and program wireless devices (see *Section 3*)
3. Complete zone and other programming on the system (see *Section 4*)
4. Test the placement of all the wireless devices (see *Section 5*)
5. Permanently mount the PC5132 receiver and wireless devices (see *Section 5*)

For additional information on trouble conditions, RF jamming signal detection and battery replacement, see *Section 6*.

For help with troubleshooting, see *Section 7*.

1.2 Specifications and Features

- Current Draw: 40mA
- Frequency: 433 MHz
- Zones - receiver can receive signals from up to 32 wireless zones and 16 wireless keys
- Internal antenna
- Supervisory - programmable supervisory window, 2 to 24 hours, in 15 minute increments
- Location
 - can be wired up to 750 ft. / 230 m from the main panel with 22 gauge wire; the wiring used in this circuit connection must be insulated with PVC, TFE, PTFE, FEP, Neoprene or Polyimide
 - connects to Keybus
 - for longer wire runs, thicker gauge wire must be used.
- Compatibility: The PC5132 v5.X can be connected to the following panels: PC5020, PC501X, PC1565, PC585

1.3 Compatible Wireless Devices

Please refer to the Instruction sheets of the following devices for more information.

The PC5132 v4.0 can receive signals from the following devices:

- WLS904-433 Motion Detector
- WLS904P-433 Pet Immune PIR
- WLS906-433 Smoke Detector
- WLS907-433 Universal Transmitter
- WLS909-433 Wireless Key
- WLS912L-433 Glass Break Detector
- WLS919-433 Wireless Key
- WLS925L-433 Mini Door/Window Contact

1.4 Batteries

The wireless devices, with the exception of the WLS925L-433 transmitter and the WLS919-433 Wireless Key, are designed to use only Energizer Alkaline batteries (by Eveready).

NOTE: *Do not use other brands of batteries. Using any other brand may affect system operation.*

PC5132 Set up & Wiring

S E C T I O N 2

This section describes how to set up and wire the PC5132 module.

2.1 Unpack the PC5132

Check that the following parts are in your PC5132 package:

- PC5132 PCB
- Hardware for mounting the cabinet
- PC5132 plastic cabinet

2.2 Choose a Mounting Location for the PC5132

NOTE: Mount the PC5132 receiver and wireless devices after you have done placement tests with the wireless devices (see sections 5.1 and 5.2).

Find a place that is:

- Dry
- Central to the proposed placement of all wireless devices
- As high as possible
- Far from sources of interference, including: electrical noise such as computers, televisions and electric motors in appliances and heating and air conditioning units; large metal objects like heating ducts and plumbing which may shield the antenna.

Make sure that electrical wires will not run over the antenna(s) of the module when it is mounted.

When mounting the PC5132 in a basement, place the module as high and as close to the underside of the first floor as possible. The range of the module will be reduced if the unit is mounted below ground level.

2.3 Antennas

The antennas have been installed at the factory. They should NOT be adjusted.

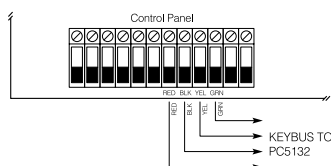
2.4 Connect the PC5132 Receiver

CAUTION: Remove all power from the system while connecting modules to the Keybus.

Connect the PC5132 to the four-wire Keybus of the control panel according to the diagram.

After you have completed the wiring, reconnect the power to the security system.

Now that you have wired the PC5132, you should enroll and program the wireless devices. See section 3 for instructions.



Enrolling Wireless Devices

S E C T I O N 3

This section describes how to enroll wireless devices (WLS904-433, WLS904P-433, WLS906-433, WLS907-433, WLS912L-433 and WLS925L-433), and wireless keys (WLS909-433/WLS919-433). For more information on these devices, read the instruction sheet included with each device.

3.1 A Note about Electronic Serial Numbers

An electronic serial number (ESN) is printed on the back of each wireless device. ESNs are used to enroll the wireless devices with the PC5132 receiver.

In order to reduce the occurrence of wireless devices with the same serial number, 6-digit serial numbers are now printed on the back of each wireless device. The 6-digit serial numbers include hexadecimal digits. For instructions on programming hexadecimal numbers, see your system *Installation Manual*, section 4: 'How to Program'.

NOTE: *6-digit serial numbers are only supported on the following control panels: PC5020, PC501X, PC1565 and PC585 v2.0 and higher.*

The WLS904(P)-433, WLS906-433, WLS907-433, WLS912L-433, and WLS925L-433 devices have both a 5-digit and a 6-digit serial number printed on them. When connecting the PC5132 to a PC5010 v1.x panel, enter 5-digit serial numbers only. When connecting the PC5132 to a PC5015 v2.x and higher, PC5020, PC5010, PC1565, or PC585 panel enter the 6-digit serial number.

3.2 Enrolling Wireless Devices

1. At a system keypad, enter [*][8][Installer's code] to go to the Installer Programming section.
2. Enter programming section [804].
3. Enter the 2-digit number corresponding to the zone the device is to occupy ([01] to [32]).

NOTE: *Hardwired and wireless devices cannot be assigned to the same zone. PC5108 zone expander modules occupy zones in 2 groups of 4 (e.g. zones 9-12 and zones 13-16). None of the zones assigned to a PC5108 module may be used for wireless devices. For more information on zone assignment, consult your system Installation Manual.*

4. Enter the device's ESN. Follow the instructions in section 3.1 above.
5. Record the serial number and the assigned zone number in the programming worksheets in the back of this manual.
6. Continue with steps 3 - 5 until you have enrolled all wireless devices.
7. To exit press [#]. The device is now enrolled on the system.

NOTE: *The devices will not work properly until you complete zone and partition programming (see section 4).*

3.3 Enroll & Program Wireless Keys

For wireless keys to work on the system, you need to enroll them and then program the function buttons. Wireless keys are not assigned to zones and require no zone programming. You can enroll up to 16 wireless keys on the system.

Enroll Wireless keys

1. At a system keypad, enter [*][8][Installer's code] to go to the Installer Programming section.
2. Enter programming section [804].
3. Enter a 2-digit number [41]-[56] to assign the wireless key a slot. These numbers correspond to wireless key numbers 01-16.
4. Enter the key's ESN. The entry *must* be six digits. If an older key with a 5-digit ESN is being enrolled, add the digit [0] to the beginning of the ESN. (E.g., if ESN=61234, enter 061234)
5. The key is now enrolled on the system. Record the serial number and the assigned slot number in the programming worksheets in the back of this manual.
6. Repeat steps 3 - 5 until all wireless keys have been enrolled.
7. **(PC5020/PC501X only)** By default, all wireless keys are assigned to Partition 1. To assign keys to Partition 2, enable the appropriate options in programming sections [91] and [92].

NOTE: A wireless key can only be assigned to one partition.

8. To exit press [#].

Program the Wireless Key Function Buttons

WLS909-433/WLS919-433 wireless keys have four programmable function buttons. You must program a set of four functions for the buttons before any keys will work. After the functions are programmed, when you press and hold one of the four buttons for two seconds, the system will execute the programmed function.

For systems not using partitions: program the function buttons in section [59]. All wireless keys will have the same four functions.

For systems using 2 partitions (PC5020/PC501X only): all wireless keys assigned to Partition 1 will have the four functions programmed in section [59]. All wireless keys assigned to Partition 2 will have the four functions programmed in section [60]. For example, if function button 1 in Section [59] is programmed for Stay arming, then pressing the first button on wireless keys assigned to Partition 1 will Stay arm Partition 1.

NOTE: Wireless keys will not work when the partition they are assigned to is being accessed for zone bypassing or programming.

1. At a system keypad, enter [*][8][Installer's code].
2. Enter programming section [804].
3. Enter programming section [59] for keys assigned to partition 1, or [60] for keys assigned to partition 2.
4. For each of the 4 function buttons, enter the 2-digit number of the function you want to select. See the programming worksheets in the back of this manual for a list of function key options.

5. Record your programming choices in the worksheets in the back of the manual.
6. To exit press [#].

3.4 Identified Wireless Keys

Reporting by the system of openings/closings by individual wireless keys and command output [*][7] activation by wireless key buttons may be supported on certain control panels. To do this, the system will reserve access codes 17 – 32 for wireless keys 01-16 respectively. You must program one access code for each wireless key (using [*][5] access code programming) for this feature to work correctly.

NOTE: Program these access codes on the system after you have connected the PC5132 to the Keybus (see section 2.4).

Refer to your system *Installation Manual* for information on access code programming.

Opening/Closing By Wireless Key Reporting

NOTE: The Identified Wireless Key Closing option is only available with the PC5020, PC501X, PC1565, PC585 v2.0 and higher by turning section [015] option 4 off.

To enable the reporting of openings and closings by identified wireless keys:

- Make sure the control panel is v2.0 or higher
- Program a valid access code for each key
- Program a closing and opening reporting code for each key's access code
- Turn off the **Quick Arm** option in section [015] option [4] of the control panel programming

To ensure that an *unidentified wireless key* cannot disarm the system, turn off section [017], option [1] (in the control panel programming). This option is available in control panels with software version 2.1 or higher.

Command Output Activation

NOTE: The Identified Wireless Key Command Output Activation feature is only available with the PC5020, PC501X, PC1565 and PC585 v2.0 and higher.

To enable command output activation by wireless keys, ensure that:

- The control panel is v2.0 or higher
- Program a valid access code for each key
- Enable the PGM output attribute **Requires Access Code** for each PGM output programmed as [*][7][1-4] in sections [141] to [154].

Now that you have enrolled all the wireless devices, you will need to program the system to work properly with the devices. See section 4 for more information.

Other Programming

S E C T I O N 4

4.1 Program Zones and Partitions

Now that you have enrolled the wireless devices, you should complete all zone programming on the system. Although the exact programming required varies depending on which control panel the PC5132 is connected to, you should check that the following programming areas are completed correctly for each wireless zone:

- Enable zones and/or assign zones to one or more partitions (programming sections [201]-[209]).
- Program the definition for each zone (programming sections [001]-[004]).
- Enable the wireless zone attribute for each wireless zone (PC585, PC1565, PC5020, PC501X v2.0 and up only) (sections [101]-[132]).

See your system *Installation Manual*, for more information on each of the above programming sections.

4.2 Enable PC5132 Supervision

The control panel will supervise the PC5132 receiver via the Keybus after at least one device has been enrolled on the module (see section 3.2 "Enrolling Wireless Devices").

To activate module supervision, after you enroll the first device(s):

1. Exit and then re-enter Installer Programming
2. Enter programming section [902]. Wait approximately 1 minute.
3. To exit press [#].

The system will generate a General System Supervisory trouble if the module is removed from the Keybus. If you need to remove the PC5132 module from an existing system, you will have to disable supervision of the PC5132.

NOTE: *Deleting all devices from the PC5132 or defaulting the PC5132 will cause a PC5132 supervisory fault*

To disable PC5132 supervision:

1. Disconnect the PC5132 from the Keybus
2. Enter [*][8][Installer's Code]
3. Enter [902]. The control panel will clear all supervision and re-scan the system for connected modules. The scan will take approximately one minute.
4. To exit press [#].

To review which modules the control panel is currently supervising:

1. Enter [*][8][Installer's Code]
2. Enter [903] to display all modules. On LED keypads, light [17] will indicate that the PC5132 is present on the system. On LCD keypads, scroll until the module name appears on the display.
3. To exit press [#].

If the PC5132 module does not show on the keypad, one of the following conditions may be present:

- the module is not connected properly to the Keybus
- there is a problem with the Keybus wiring run
- the module does not have enough power
- no devices have been enrolled on the PC5132

4.3 Enable Supervision of Wireless Zones

NOTE: (for PC5010 v1.x control panels only) In order for wireless zones to be supervised, you must enable Double End of Line (DEOL) supervision in the PC5010 control panel. For more information, refer to your **Installation Manual**.

NOTE: (PC5020, PC501X, PC1565, PC585 v2.0 and higher only) For wireless supervision to work, you must enable the wireless zone attribute on all wireless zones (sections [101] to [132], option [8] ON).

Wireless Supervisory Window

Each wireless zone (WLS906-433, WLS904-433, WLS904P-433, WLS907-433, WLS912L-433, or WLS925L-433) will send a supervisory signal every 12 minutes. If the receiver does not receive a signal within the time programmed for the **Wireless Supervisory Window**, it will generate a supervisory fault.

To program the wireless supervisory window:

1. Enter [*][8][Installer's Code] to enter Installer Programming.
2. Enter [804] to enter the PC5132 Module Programming.
3. Enter section [81].
4. Enter the time period for the supervisory window. The window is programmed in 15 minute increments. The default programming is 10 (x15minutes), which is equal to 2.5 hours. Valid entries are (08) - (96), equal to 2 - 24 hours.
5. To exit press [#].

Disable/Enable Zone Supervision

All wireless zones have supervision enabled by default. To disable supervision for any zone, enter the following at any system keypad:

1. Enter [*][8][Installer's Code] to enter Installer Programming.
2. Enter [804] to enter the PC5132 Module Programming.
3. Enter sections [82], [83], [84] and [85]. Enable or disable supervision for each wireless zone by turning each relevant option on or off.
4. To exit press [#].

4.4 Jamming Signal Detection

The PC5132 receiver detects jamming signals that can prevent the receiver from properly receiving transmissions from enrolled devices. When jamming signals are detected, the control panel will generate a General System Tamper trouble, which will be reported immediately. Jamming signal detection is turned ON by default.

To turn OFF jamming signal detection:

1. Enter [*][8][Installer's Code] to enter Installer Programming.
2. Enter [804] to enter the PC5132 Module Programming.
3. *Turn ON* section [90], option [7].
4. To exit press [#].

4.5 PC5132 Software Default

Returning the PC5132 programming to factory default settings is a quick way to remove all the enrolled devices from the system and reset all the programming in section [804].

NOTE: *Performing this procedure will not change any programming sections except [804]. Resetting the control panel to factory default settings will not return the PC5132 module to factory default settings.*

To restore the PC5132 programming to the factory default settings:

1. Enter [*][8] [Installer's Code].
2. Enter programming section [996].
3. Enter the Installer's Code, followed by [996] again. The software for the PC5132 will be restored to its factory default settings.
4. To continue programming the unit, exit Installer Programming by pressing [#] and then re-enter Installer Programming by entering [*][8] [Installer's Code].

For instructions on restoring the default programming of the control panel or any other connected module, see your system *Installation Manual*.

4.6 Deleting Wireless Devices

To remove a wireless device from the system, follow the guideline for enrolling a wireless device (see section 3.2). Program the ESN as [000000]. The wireless device for the zone will be removed.

NOTE: *You may need to remove power from the panel in order to clear troubles caused by deleted zones.*

Now that you have completed all PC5132 related programming, you can test and mount the receiver and devices. See section 5 for more information.

Testing & Mounting

S E C T I O N 5

5.1 Test the Reception of Wireless Devices

It is very important to test the proposed placement of each wireless device before it is mounted. Following these steps will test the signal strength between the PC5132-433 and the wireless devices.

You can test all of the devices together (global placement testing) or test each device individually. To test all the devices together, see *Testing All Wireless Devices Together*. To test wireless devices individually, see *Testing Individual Devices*.

NOTE: *After you have enrolled the wireless devices, you must exit and then re-enter installer's mode at least once before you can perform a placement test.*

Testing All Wireless Devices Together:

1. Temporarily put the wireless devices in the places you want to mount them.
2. At a system keypad, enter [*][8][Installer's Code].
3. Enable the Global Module Placement test by entering section [804]. Then enter sub-section [90] and turn on option [8].
4. Press [#] twice.
5. Enter programming section [904], then enter [01].
6. Activate one of the devices being tested until a result is displayed on the keypad or sounded by the keypad or bell:

WLS904-433/WLS904P: To perform a Placement Test on the WLS904-433, remove the detector from the back plate and then replace it. Once the detector is replaced on the backplate the LED on the detector will flash rapidly 5 times to indicate that it has sent a transmission. The panel will show and/or sound the result of the placement test on the keypad. To perform a 2nd and 3rd test, repeat this procedure. ***Carefully replace the backplate onto the detector, ensuring that "TOP" is facing upward, or you may damage the tamper switch.***

NOTE: *When you remove the detector from the backplate (tamper the unit), the detector will also be put into "Detector Walk Test" mode. While in Walk Test Mode the detector will activate the LED when motion is detected. The detector will also send a signal to the receiver 5 seconds after motion is detected, indicated by 5 rapid flashes by the LED. The LED will only work in this fashion for 10 motion detections after a tamper/restore. Note, that the panel will ignore these transmission signals with respect to a placement test. The only way in which the panel will acknowledge a placement test, is if the backplate has, each time, been removed and restored.*

WLS906-433: Remove the detector from its backplate, wait 5 seconds and reattach it, or hold a magnet near the raised line on the outer rim, then remove it.

WLS907-433/WLS925L-433: Open the contact by moving the magnet away from the unit. The keypad will show/sound the test result. After the first test result has been generated (about 10 seconds) close the contact to generate another test result. If the unit is attached to a door or a window, open and close the door or window to activate the device.

WLS909-433/WLS919-433: Press any function key at several different locations.

WLS912L-433: Press and hold the test mode tab for 5 seconds. Release the test mode tab.

Read the test results at the keypad:

Result	LED Keypad	LCD Keypad	Buzzer/Bell
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.

You may mount the WLS 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.

7. Go to the next device to be tested and activate it until the test result is displayed/sounded.

NOTE: Wait until the placement test of one device is shown/sounded before beginning to test the next device.

Continue to test the devices until both the PC5132 and the devices are in good locations. If several wireless devices produce BAD test results, you may need to move the PC5132 to a better location. (See section 2.2 for tips on finding a location for the PC5132.)

8. To exit the placement test and return to installer programming, press [#] twice.

Testing Individual Wireless Devices:

1. Temporarily place the wireless device in the place you want to mount it.
2. At a system keypad, enter [*][8][Installer's Code].
3. Enter programming section [904].
4. Enter the 2-digit zone number for the device to be tested.
5. Activate the device being tested until a result is displayed on the keypad or sounded by the keypad or bell. (Same as step 5 in the Global Placement Test section, previous page.)
6. To test another device, press [#] once, then repeat steps 4 - 5. Continue to test the devices until both the PC5132 and the devices are in good locations. If several wireless devices produce BAD test results, you may need to move the PC5132 to a better location. (See section 2.2 for tips on finding a location for the PC5132.)
7. To exit the placement test and installer programming, press [#] twice.

Testing Individual Wireless Keys:

You cannot use the individual device test described above to test WLS909-433/WLS919-433 wireless keys. To ensure that the PC5132 receiver is receiving transmissions from the devices, use the function keys on the Wireless Keys at several different points in the installation.

5.2 Mount the PC5132 and Wireless Devices

When you have tested reception of the PC5132 with all the wireless devices (see section 5.1) and you have a good mounting location, mount the PC5132:

1. Pull the Keybus wires through the hole at the bottom of the cabinet.
2. Mount the cabinet securely to the wall.

Mount the Devices

If you have conducted the placement test described in section 5.1 and got 3 "Good" results in a row for each device, you can mount the wireless devices. See the *Installation Sheet* for each device for mounting instructions.

Now that your PC5132 and wireless devices are mounted and working properly, read section 6 for information on potential wireless trouble conditions, RF jamming signals, and battery replacement.

Additional Notes

S E C T I O N 6

6.1 Trouble Conditions

The control panel always watches for possible trouble conditions. If a trouble condition occurs, the keypad "Trouble" light will turn on and the keypad will beep. Press [*][2] to display the trouble conditions.

The following trouble conditions apply to the PC5132 and/or any enrolled devices.

General System Tamper - This trouble is generated when the PC5132 plastic cover is removed and/or if there is a jamming condition present.

General System Supervisory - This trouble will be indicated if the panel loses communication with any module connected to the Keybus. The event buffer will log a detailed description of the event.

Device Low Battery - This trouble is generated when a wireless device exhibits a low battery condition. Press [7] one, two, or three times to view which devices are experiencing battery failure. An LED keypad will indicate battery failure using zone lights 1 to 8.

Zone Tamper - This trouble is generated when an enrolled wireless device is removed from its mounting location.

Zone Fault - Each wireless zone will send a supervisory signal every 64 minutes. If the receiver does not receive a signal within the time programmed for the **Wireless Supervisory Window**, it will generate a zone fault.

Tamper Switches

There are two tamper switches on the PC5132 board. Removing both the plastic cover and/or the PC5132 from its mounting location will cause a general system tamper.

6.2 Jamming Signal Detection

The PC5132 receiver detects jamming signals that can prevent the receiver from properly receiving transmissions from enrolled devices. See section 4.4 "Jamming Signal Detection" for information on jamming signal detection programming.

6.3 Wireless Zone Low Battery Transmission

Within any transmission, the device will indicate the status of the battery. If a battery is low, the system will indicate a Device Low Battery trouble.

The system will delay reporting the event to the central station for the number of days programmed for **Zone Low Battery Transmission Delay** in section [370]. This will prevent unnecessary reporting of the event if the user has been instructed on how to replace batteries.

Replacing Batteries in Wireless Devices

1. Remove the cover of the device from its back plate. 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 back plate. The tamper is restored and the zone sends a battery trouble restoral signal to the PC5132. 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 may need to be replaced at the same time.*

Troubleshooting

S E C T I O N 7

1. 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 a PC5132 wireless receiver is connected to the Keybus. See section 2 for instructions on setting up and wiring the PC5132 module.

2. 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 (see sections 5.1 and 5.2 for more information on testing devices):

- 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 PC5132. Try testing the device in the same room as the receiver.
- Confirm that the PC5132 is properly connected to the Keybus (see section 2 for PC5132 set up and wiring instructions).
- Check that you are testing the zone correctly (see sections 5.1 and 5.2 for testing instructions)
- Check that the batteries are working and installed correctly.
- Look for large metal objects that may be preventing the signal from reaching the PC5132.

The device must be located where consistent “Good” results are obtained. If several devices show “Bad” results, move the receiver. See section 2.2 for tips on choosing a mounting location for the PC5132.

4. The LED on the motion detector does not turn on when I walk in front of the unit.

The LED is for walk test purposes only. See your WLS904-433/WLS904P-433 *Instruction Sheet* for walk test instructions.

Programming Worksheets

S E C T I O N 8

[804] 5132--433 Wireless Expansion Programming

- 6-digit entry is required. See Section 3.1 "A note on Electronic Serial Numbers" for details on programming 6-digit serial numbers.

Zone Serial Numbers

Default = 000000

[01] Zone 1

[02] Zone 2

[03] Zone 3

[04] Zone 4

[05] Zone 5

[06] Zone 6

[07] Zone 7

[08] Zone 8

[09] Zone 9

[10] Zone 10

[11] Zone 11

[12] Zone 12

[13] Zone 13

[14] Zone 14

[15] Zone 15

[16] Zone 16

[17] Zone 17

[18] Zone 18

[19] Zone 19

[20] Zone 20

[21] Zone 21

[22] Zone 22

[23] Zone 23

[24] Zone 24

[25] Zone 25

[26] Zone 26

[27] Zone 27

[28] Zone 28

[29] Zone 29

[30] Zone 30

[31] Zone 31

[32] Zone 32

Wireless Key Serial Numbers

Default = 000000

[41] Key 01		[49] Key 09	
[42] Key 02		[50] Key 10	
[43] Key 03		[51] Key 11	
[44] Key 04		[52] Key 12	
[45] Key 05		[53] Key 13	
[46] Key 05		[54] Key 14	
[47] Key 07		[55] Key 15	
[48] Key 08		[56] Key 16	

Wireless Key Function Key Options

Entry	Key Description	Entry	Key Description
00	Null Key	16	[*][0] Quick Exit
01-02	<i>For Future Use</i>	17	[*][1] Reactivate Stay/Aways
03	Stay Arm	18	<i>For Future Use</i>
04	Away Arm	19	[*][7][3] Command Output #3
05	[*][9] No-Entry Arm	20	<i>For Future Use</i>
06	[*][4] Chime ON/OFF	21	[*][7][4] Command Output #4
07	[*][6][—][4] System Test	22-26	<i>For Future Use</i>
08-12	<i>For Future Use</i>	27	Disarm (OFF)
13	[*][7][1] Command Output #1	28	Fire Alarm
14	[*][7][2] Command Output #2 / Sensor Reset	29	Auxiliary Alarm
15	<i>For Future Use</i>	30	Panic Alarm

Partition 1 Wireless Key Options

Default = 00

[59] Function Key 1

Function Key 3

Function Key 2 | | |

Function Key 4

Partition 2 Wireless Key Options

[60] Function Key 1

Function Key 3

Function Key 2

Function Key 4

Supervision

[81] Wireless Supervisory Window Default = 10

 The window is programmed in 15 minute increments. The default programming is 96 (x 15minutes), which is equal to 24 hours. Valid entries are (08) - (96), equal to 2 - 24 hours.

[82] Zone Device Supervision Options (1-8)

Default = ON

Option ON

Option OFF

Option 1	Zone 01 Supervision enabled	Disabled
----------	-----------------------------	----------

Option 2	Zone 02 Supervision enabled	Disabled
----------	-----------------------------	----------

Option 3	Zone 03 Supervision enabled	Disabled

Option 4	Zone 04 Supervision enabled	Disabled
----------	-----------------------------	----------

Option 5	Zone 05 Supervision enabled	Disabled
----------	-----------------------------	----------

Option 6	Zone 06 Supervision enabled	Disabled
----------	-----------------------------	----------

Option 7	Zone 07 Supervision enabled	Disabled
----------	-----------------------------	----------

Option 8	Zone 08 Supervision enabled	Disabled
----------	-----------------------------	----------

[83] Zone Device Supervision Options (9-16)

Default = ON

Option ON

Option OFF

Option 1	Zone 09 Supervision enabled	Disabled
----------	-----------------------------	----------

Option 2	Zone 10 Supervision enabled	Disabled
----------	-----------------------------	----------

Option 3	Zone 11 Supervision enabled	Disabled
----------	-----------------------------	----------

Option 4	Zone 12 Supervision enabled	Disabled
----------	-----------------------------	----------

Option 5	Zone 13 Supervision enabled	Disabled
----------	-----------------------------	----------

Option 6	Zone 14 Supervision enabled	Disabled
----------	-----------------------------	----------

Option 7	Zone 15 Supervision enabled	Disabled
----------	-----------------------------	----------

Option 8	Zone 16 Supervision enabled	Disabled
----------	-----------------------------	----------

[84] Zone Device Supervision Options (17-24)

Default = ON	Option ON	Option OFF
☐ Option 1	Zone 17 Supervision enabled	Disabled
☐ Option 2	Zone 18 Supervision enabled	Disabled
☐ Option 3	Zone 19 Supervision enabled	Disabled
☐ Option 4	Zone 20 Supervision enabled	Disabled
☐ Option 5	Zone 21 Supervision enabled	Disabled
☐ Option 6	Zone 22 Supervision enabled	Disabled
☐ Option 7	Zone 23 Supervision enabled	Disabled
☐ Option 8	Zone 24 Supervision enabled	Disabled

[85] Zone Device Supervision Options (25-32)

Default = ON	Option ON	Option OFF
☐ Option 1	Zone 25 Supervision enabled	Disabled
☐ Option 2	Zone 26 Supervision enabled	Disabled
☐ Option 3	Zone 27 Supervision enabled	Disabled
☐ Option 4	Zone 28 Supervision enabled	Disabled
☐ Option 5	Zone 29 Supervision enabled	Disabled
☐ Option 6	Zone 30 Supervision enabled	Disabled
☐ Option 7	Zone 31 Supervision enabled	Disabled
☐ Option 8	Zone 32 Supervision enabled	Disabled

[90] Other Options

Default = OFF	Option ON	Option OFF
☐ Options 1-6	For future use	
☐ Option 7	RF Jam Detect Disabled	RF Jam Detect Enabled
☐ Option 8	Global Placement Test	Individual Placement Test

[91] Wireless Keys (1-8) Partition Assignments

Default = OFF	Option ON	Option OFF
☐ Option 1	Wireless Key 01 on partition 2	On partition 1
☐ Option 2	Wireless Key 02 on partition 2	On partition 1
☐ Option 3	Wireless Key 03 on partition 2	On partition 1
☐ Option 4	Wireless Key 04 on partition 2	On partition 1

☐ Option 5	Wireless Key 05 on partition 2	On partition 1
☐ Option 6	Wireless Key 06 on partition 2	On partition 1
☐ Option 7	Wireless Key 07 on partition 2	On partition 1
☐ Option 8	Wireless Key 08 on partition 2	On partition 1

[92] Wireless Keys (9-16) Partition Assignments

Default = OFF	Option ON	Option OFF
☐ Option 1	Wireless Key 09 on partition 2	On partition 1
☐ Option 2	Wireless Key 10 on partition 2	On partition 1
☐ Option 3	Wireless Key 11 on partition 2	On partition 1
☐ Option 4	Wireless Key 12 on partition 2	On partition 1
☐ Option 5	Wireless Key 13 on partition 2	On partition 1
☐ Option 6	Wireless Key 14 on partition 2	On partition 1
☐ Option 7	Wireless Key 15 on partition 2	On partition 1
☐ Option 8	Wireless Key 16 on partition 2	On partition 1

Guidelines for Locating Smoke Detectors

SECTION 9

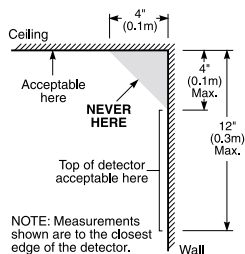
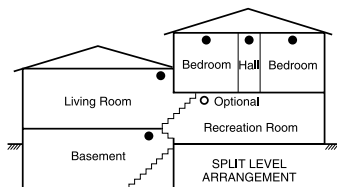
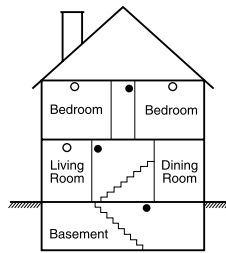
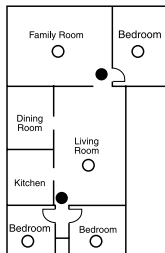
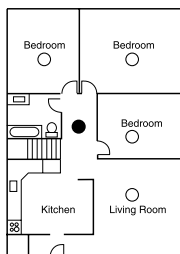
Experience has shown that all hostile fires in family living units generate smoke to a greater or lesser extent. Experiments using typical fires in family living units indicate that detectable quantities of smoke precede detectable levels of heat in most cases. In existing homes, NFPA Standard 72 requires that a smoke detector be installed outside each sleeping area and on each additional story of the family unit. On smooth ceilings, detectors may be spaced 9.1m (30 feet) apart as a guide. Other spacing may be required depending on ceiling height, air movement, the presence of joists, uninsulated ceilings, etc. Consult National Fire Alarm Code NFPA 72, CAN/ULS-S553-M86 or other appropriate national standards for installation recommendations.

Do not locate smoke detectors at the top of peaked or gabled ceilings; the dead air space in these locations may prevent the unit from detecting smoke.

Avoid areas with turbulent air flow, such as near doors, fans or windows. Rapid air movement around the detector may prevent smoke from entering the unit.

Do not locate detectors in areas of high humidity.

Do not locate detectors in areas where the temperature rises above 38°C (100°F) or falls below 5°C (41°F).



- Smoke detectors for better protection
- Smoke detectors for minimum protection

Smoke detectors should always be installed in accordance with NFPA 72, the National Fire Alarm Code. Smoke detectors should always be located in accordance with:

- Paragraph 2-2.1.1.1 of NFPA 72: "Smoke detectors shall be installed outside of each separate sleeping area in the immediate vicinity of the bedrooms and on each additional story of the family living unit, including basements and excluding crawl spaces and unfinished attics. In new construction, a smoke detector also shall be installed in each sleeping room."
- Paragraph 2-2.1.1.2 of NFPA 72: "Split level arrangement. Smoke detectors are required where shown. Smoke detectors are optional where a door is not provided between living room and recreation room."



The Smoke Detector is designed to use Eveready Energizer EN91 Alkaline Batteries. Do not use other brands of batteries with the Smoke Detector. Using brands other than the Eveready Energizer will void UL approval, and may affect the system's operation.

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FCC COMPLIANCE STATEMENT

CAUTION: Changes or modifications not expressly approved by Digital Security Controls Ltd. 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 meets all requirements of the Canadian interference-causing equipment regulations.

Cet appareil numérique de la Classe B respecte toutes les exigences de règlement sur le matériel brouilleur du Canada.

IC: 160 - 5132XS43

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



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WARNING Please Read Carefully

Note to Installers

This warning contains vital information. As the only individual in contact with system users, it is your responsibility to bring each item in this warning to the attention of the users of this system.

System Failures

This system has been carefully designed to be as effective as possible. There are circumstances, however, involving fire, burglary, or other types of emergencies where it may not provide protection. Any alarm system of any type may be compromised deliberately or may fail to operate as expected for a variety of reasons. Some but not all of these reasons may be:

■ Inadequate Installation

A security system must be installed properly in order to provide adequate protection. Every installation should be evaluated by a security professional to ensure that all access points and areas are covered. Locks and latches on windows and doors must be secure and operate as intended. Windows, doors, walls, ceilings and other building materials must be of sufficient strength and construction to provide the level of protection expected. A reevaluation must be done during and after any construction activity. An evaluation by the fire and/or police department is highly recommended if this service is available.

■ Criminal Knowledge

This system contains security features which were known to be effective at the time of manufacture. It is possible for persons with criminal intent to develop techniques which reduce the effectiveness of these features. It is important that a security system be reviewed periodically to ensure that its features remain effective and that it be updated or replaced if it is found that it does not provide the protection expected.

■ Access by Intruders

Intruders may enter through an unprotected access point, circumvent a sensing device, evade detection by moving through an area of insufficient coverage, disconnect a warning device, or interfere with or prevent the proper operation of the system.

■ Power Failure

Control units, intrusion detectors, smoke detectors and many other security devices require an adequate power supply for proper operation. If a device operates from batteries, it is possible for the batteries to fail. Even if the batteries have not failed, they must be charged, in good condition and installed correctly. If a device operates only by AC power, any interruption, however brief, will render that device inoperative while it does not have power. Power interruptions of any length are often accompanied by voltage fluctuations which may damage electronic equipment such as a security system. After a power interruption has occurred, immediately conduct a complete system test to ensure that the system operates as intended.

■ Failure of Replaceable Batteries

This system's wireless transmitters have been designed to provide several years of battery life under normal conditions. The expected battery life is a function of the device environment, usage and type. Ambient conditions such as high humidity, high or low temperatures, or large temperature fluctuations may reduce the expected battery life. While each transmitting device has a low battery monitor which identifies when the batteries need to be replaced, this monitor may fail to operate as expected. Regular testing and maintenance will keep the system in good operating condition.

■ Compromise of Radio Frequency (Wireless) Devices

Signals may not reach the receiver under all circumstances which could include metal objects placed on or near the radio path or deliberate jamming or other inadvertent radio signal interference.

■ System Users

A user may not be able to operate a panic or emergency switch possibly due to permanent or temporary physical disability, inability to reach the device in time, or unfamiliarity with the correct operation. It is important that all system users be trained in the correct operation of the alarm system and that they know how to respond when the system indicates an alarm.

■ Smoke Detectors

Smoke detectors that are a part of this system may not properly alert occupants of a fire for a number of reasons, some of which follow. The smoke detectors may have been improperly installed or positioned. Smoke may not be able to reach the smoke detectors, such as when the fire is in a chimney, walls or roofs, or on the other side of closed doors. Smoke

detectors may not detect smoke from fires on another level of the residence or building.

Every fire is different in the amount of smoke produced and the rate of burning. Smoke detectors cannot sense all types of fires equally well. Smoke detectors may not provide timely warning of fires caused by carelessness or safety hazards such as smoking in bed, violent explosions, escaping gas, improper storage of flammable materials, overloaded electrical circuits, children playing with matches or arson.

Even if the smoke detector operates as intended, there may be circumstances when there is insufficient warning to allow all occupants to escape in time to avoid injury or death.

■ Motion Detectors

Motion detectors can only detect motion within the designated areas as shown in their respective installation instructions. They cannot discriminate between intruders and intended occupants. Motion detectors do not provide volumetric area protection. They have multiple beams of detection and motion can only be detected in unobstructed areas covered by these beams. They cannot detect motion which occurs behind walls, ceilings, floor, closed doors, glass partitions, glass doors or windows. Any type of tampering whether intentional or unintentional such as masking, painting, or spraying of any material on the lenses, mirrors, windows or any other part of the detection system will impair its proper operation.

Passive infrared motion detectors operate by sensing changes in temperature. However their effectiveness can be reduced when the ambient temperature rises near or above body temperature or if there are intentional or unintentional sources of heat in or near the detection area. Some of these heat sources could be heaters, radiators, stoves, barbecues, fireplaces, sunlight, steam vents, lighting and so on.

■ Warning Devices

Warning devices such as sirens, bells, horns, or strobes may not warn people or waken someone sleeping if there is an intervening wall or door. If warning devices are located on a different level of the residence or premise, then it is less likely that the occupants will be alerted or awakened. Audible warning devices may be interfered with by other noise sources such as stereos, radios, televisions, air conditioners or other appliances, or passing traffic. Audible warning devices, however loud, may not be heard by a hearing-impaired person.

■ Telephone Lines

If telephone lines are used to transmit alarms, they may be out of service or busy for certain periods of time. Also an intruder may cut the telephone line or defeat its operation by more sophisticated means which may be difficult to detect.

■ Insufficient Time

There may be circumstances when the system will operate as intended, yet the occupants will not be protected from the emergency due to their inability to respond to the warnings in a timely manner. If the system is monitored, the response may not occur in time to protect the occupants or their belongings.

■ Component Failure

Although every effort has been made to make this system as reliable as possible, the system may fail to function as intended due to the failure of a component.

■ Inadequate Testing

Most problems that would prevent an alarm system from operating as intended can be found by regular testing and maintenance. The complete system should be tested weekly and immediately after a break-in, an attempted break-in, a fire, a storm, an earthquake, an accident, or any kind of construction activity inside or outside the premises. The testing should include all sensing devices, keypads, consoles, alarm indicating devices and any other operational devices that are part of the system.

■ Security and Insurance

Regardless of its capabilities, an alarm system is not a substitute for property or life insurance. An alarm system also is not a substitute for property owners, renters, or other occupants to act prudently to prevent or minimize the harmful effects of an emergency situation.