



Important Note

Double end of line (EOL) resistors must be enabled in the PC5010 control panel for the wireless zones to be supervised. If normally Closed or Single EOL resistors are selected the control panel will not be able to supervise the wireless devices.

If a wireless device stops sending a supervisory signal (the unit stops functioning) the panel will not indicate a supervisory trouble condition unless double EOL resistors are used. In addition, all hardwire zones must be wired for double EOL resistors.

Thank you for purchasing the PC5132-RS Wireless Receiver. This product is the result of several years of development and will allow you to add up to 32 wireless zones to the control panel.

A short list of advantages:

- *Twelve minute supervisory time as opposed to fifty or sixty minutes*
- *Programmable supervisory window, from one to twelve hours*
- *Standard alkaline batteries versus specialized batteries*
- *Orthogonal antenna design*

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



Overview

S E C T I O N 1

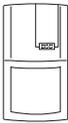
1.1 Specifications and Features

PC5132-RS Wireless Receiver

- Current Draw: 130 mA
- Frequency: 922 to 926 MHz, Spread Spectrum
- Zones - receiver can receive signals from up to 32 wireless zones
- Antenna - orthogonal design for enhanced performance
- Supervisory - programmable supervisory window, 1 to 12 hours
- Location
 - can be wired up to 750 ft. / 230 m from the main panel with 22 gauge wire
 - connects to Keybus
 - for longer wire runs, thicker gauge wire must be used.
- Panels - The PC5132-RS can be connected to the following panel: PC5010

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

WLS904 Motion Detector



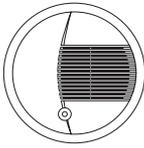
- Standard alkaline batteries, four 'AAA' batteries, 30 to 36 month life
- Fully supervised for communication integrity
- 12 minute supervisory time
- Easy enroll process (ESN)
- Tamper condition is monitored
- Walk test LED
- 3 minute 'High Traffic Shutdown'
- Operating temperature ranges from 0°C to 50°C / 32°F to 122°F

WLS905/WLS907 Universal Transmitter



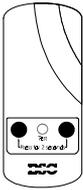
- Standard alkaline batteries, three 'AAA' batteries, 30 to 36 month life
- Fully supervised for communication integrity
- 12 minute supervisory time
- Easy enroll process (ESN)
- Tamper condition is monitored
- Built-in reed switch or terminals for external contacts
- Normally open/Normally closed models available
- Operating temperature ranges from 0°C to 50°C / 32°F to 122°F

WLS906 Smoke Detector



- Standard alkaline batteries, six 'AA' batteries, 30 to 36 month life
- Fully supervised for communication integrity
- 12 minute supervisory time
- Easy enroll process (ESN)
- Tamper condition is monitored
- Photoelectric detection technology (Patent pending)
- Internal diagnostic every 40 seconds
- Operating temperature ranges from 0°C to 50°C / 32°F to 122°F

WLS908 Panic Pendant



- 5 year battery life
- Easy enroll process (ESN)
- Water resistant
- To initiate an alarm, press and hold both coloured buttons for two seconds.
- To initiate a test, press and hold the centre button for two seconds and release.
- Operating temperature ranges from 0°C to 50°C / 32°F to 122°F
- Supported by PC5132 v2.X only

WLS909 Wireless Key



- Standard alkaline batteries, three 'A76' batteries, 12 to 24 month life
- Compact, convenient size for pocket or purse
- Easy enroll process (ESN)
- Easy to use push-buttons to arm in Stay/Away modes and disarm, or other programmable options (see worksheets for options)
- Operating temperature range from 0°C to 50°C / 32°F to 122°F
- Supported by PC5132 v2.X only

WLS910 Handheld Keypad (*This device is not UL Listed*)



- Standard alkaline batteries, three 'AAA' batteries, 24 month life
- Portable, TV remote size
- Wall mounting bracket
- Easy enroll process (ESN)
- Standard keypad Fire, Auxiliary and Panic keys
- Easy to use function keys to arm in Stay/Away modes, or other programmable options (see worksheets for options)
- Operating temperature range from 0°C to 50°C / 32°F to 122°F
- Support by PC5132 v2.X only

Batteries

The wireless devices are designed to use Eveready Alkaline Energizer batteries (AA: E91; AAA: E92).



Do not use other brands of batteries. Using any other brand voids any UL approvals and may affect the system operation.

1.2 Glossary of Terms

- **Backplate**

The mounting bracket used to secure each wireless device to the wall or ceiling.

- **Enrolling**

The term used for adding a wireless device to the control panel. Enrolling a device tells the panel which zone the wireless device will use as well as what kind of device it is.

- **Keybus**

The four conductor wire that connects every module to the system.

- **Module**

An additional device which expands the system capabilities when it is connected to the security system. For example, the PC5132-RS wireless zone expander module allows the use of wireless devices.

- **RF**

An acronym for 'radio frequency'. RF is often used to refer to wireless radio transmission technology and devices.

- **Spread Spectrum**

A specialized radio transmission technology used by the PC5132-RS wireless expansion module. Spread Spectrum radio technology is very reliable and very resistant to interference or jamming.

- **Wireless**

Any system, module or device that uses radio signals in its operation.

- **ESN**

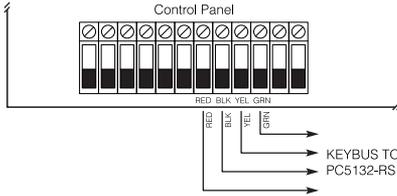
Electronic Serial Number, refers to a modules serial number.

Getting Started

SECTION 2

2.1 Connecting the PC5132-RS Receiver

Wire the PC5132-RS to the four wire Keybus of the control panel according to the following diagram.



After wiring is complete the panel must be told the module has been added. This will happen automatically when the panel is powered up after the module is connected.

! *Being able to connect the PC5132-RS to the Keybus allows you to locate the receiver as close to the wireless zones as possible, reducing the overall range of the transmissions and improving reliability. Module should be placed high to enhance range. Remove all power while connecting modules to the Keybus.*

2.2 Installing the Antennas

The two antennas must be screwed into the terminals marked ANT1 and ANT2, not GND1 and GND2. Also they must be installed as indicated in the following two diagrams:



Do not install the antennas as indicated in the following diagrams:



! *If the antennas are installed incorrectly the PC5132-RS may not reliably receive signals from the transmitters.*

2.3 Adding Wireless Devices

The following is the procedure for enrolling wireless transmitters to the PC5132 receiver:

1. Enter [*] [8] [Installer Code]
2. Enter Program Section [804]
3. Enter the two digit number for the device to be wireless
 - Sections [01] to [32] for wireless zones, universal transmitters, motion detectors, smoke detectors, and panic pendants.
 - Sections [33] to [36] for handheld keypads
 - Sections [41] to [56] for wireless keys
4. Enter the five digit ESN on the back of the wireless device. The device is now added to the panel. Continue with steps 3 and 4 until all of the ESNs for all of the wireless devices are added. Press [#] once to exit Program Section [804] and press [#] again to exit Installer Programming.

In addition, you must program how the zones will operate, (see the section on "Zone Definitions" in the Control Panel's Installation Manual). Also the function keys for the handheld keypads and wireless keys will also need to be programmed, (see Sections 2.3.1 and 2.3.2 of this manual).



When adding the wireless devices, it is important to remember that both hardwire and wireless operation cannot be assigned to the same zone. In order to be sure that this is done correctly, consult the Control Panel's Installation Manual.

2.3.1 Wireless Key Programming

Each wireless key enrolled onto the PC5132-RS has to be assigned to a partition, and have the keys programmed. The wireless keys are defaulted to be on partition 1. To assign the wireless key to partition 2, turn on the appropriate light in sections [91] and [92].



A wireless key can only be assigned to one partition.

In sections [65], [66], [67] and [68] the function keys for wireless keys on partition 1 are programmed. Sections [69], [70], [71], and [72] are for the partition 2 function key programming. For example, if section [65] is programmed as Stay arming, then pressing the first key on all wireless keys on partition 1, will Stay arm partition 1.

2.3.2 Handheld Keypad Programming

Each handheld keypad enrolled onto the PC5132-RS has to be assigned to a partition, and have the function keys programmed. The keypads are defaulted to be on partition 1. To assign the keypad to partition 2, turn on the appropriate light in section [90].



A Handheld Keypad can only be assigned to one partition.

In sections [57], [58], [59] and [60] the function keys for the handheld keypads on partition 1 are programmed. Sections [61], [62], [63], and [64] are for the partition 2 function key programming. For example, if section [57] is programmed as [03] Stay arming, then pressing and holding the '1' key for 2 seconds on all handheld keypads on partition 1 will Stay arm partition 1.

2.4 Deleting Wireless Devices

To remove a wireless device from the control panel, follow the guideline for adding a wireless device. Program the ESN as [00000]. The wireless device for the zone will be removed.



It may be required to power down the panel to clear troubles that have been caused by deleted zones.

2.5 Replacing a Pendant with a Low Battery

Once there is a low battery on a pendant, the pendant should be replaced immediately. In order to clear the low battery correctly, follow these steps:

From the keypad

1. Enter [★] [8] [Installer Code].
2. Enter Program section [804].
3. Enter the two digit number for the pendant to be replaced.
4. Enter serial number [00000].
5. Enter the two digit number for the pendant being replaced.
6. Enter the ESN number of the new pendant/ Press [#] twice to exit Installer Programming.

Through downloading

1. Connect to the panel through downloading.
2. Upload window contents of the zone serial numbers in the wireless expansion section of downloading.
3. Change the serial number of the pendant to be replaced to [00000].
4. Download window contents.
5. Enter the new ESN number of the new pendant.
6. Download window contents.

2.6 Testing Wireless Devices/Module Placement Test

It is extremely important to test each wireless device, preferably before the unit is mounted. The following is the procedure for testing wireless devices:

1. Enter [★] [8] [Installer Code]
2. Enter Program Section [904]
3. Enter the two digit zone number for the device to be tested
4. **Door Contact.** Open and close the contact by moving the magnet or operating the external device connected to the Door Contact. The keypad will display the test result after the zone is restored.
Motion Detectors and Smoke Detectors. Remove the Detector from its backplate, wait for 5 seconds, then reattach the Detector to its backplate. The keypad will display the test result after the Detector is reattached to its backplate.
5. The results of the test will be displayed on the keypad.
6. Continue Steps 4 and 5 for the zone presently under test.
7. Press [#] once to be able to select another zone, Step 3.
8. Press [#] once to exit Programming Section [904] and press [#] again to exit Installer Programming.

When performing a test one of three results will be displayed: Good, Fair and Bad. The panel will show the following:

Placement	LED Keypad	LCD Keypad	Bell/Buzzer
Good	Light 1 On Steady	Good	1 Beep/Squawk
Fair	Light 2 On Steady	Fair	2 Beeps/Squawks
Bad	Light 3 On Steady	Bad	3 Beeps/Squawks

Wireless devices can be mounted where results were Good or Fair. Devices indicating a Bad result must be moved to another location.

! No device should be mounted where a Bad test result was indicated. If multiple tests on the same device are performed you must wait at least 10 seconds between tests.

Panic Pendant Test

The Panic Pendant cannot be tested in the module placement test, so follow these steps:

1. Begin testing when your system is in the ready state and the keypad Ready light is ON.
2. Press and hold the small button on the pendant marked "Test" for two seconds.
3. The following result is for the PC5132-RS connected to the PC5010. Once the test is completed and the pendant's battery condition is normal, the Ready light will turn off for four to five seconds.
4. If the pendant's battery is low, the keypad Trouble light will turn ON and a series of continuous keypad beeps will be heard. **NOTE: If a low battery condition is detected, you must immediately replace the unit.**

This test should also be performed by the user when they perform weekly system test.

2.7 Supervision of the PC5132-RS

To allow a trouble to be indicated should the PC5132-RS module be removed from the system, enter the following at any keypad.

1. Press [★] [8] [Installer Code] to enter Installer Programming
2. Follow the steps in Section 2.3 "Adding Wireless Devices"
3. Exit and then re-enter Installer's Programming.
4. Press [902] to enable supervision. The panel will automatically search for all modules on the system. Once the search (it will take about 1 minute) is complete enter the following to confirm the modules on the system.
5. Press [903] to display all modules.
Light [17] will indicate that the PC5132-RS is present on the system.

! After enrolling zones in [804], exit Programming. Wait for 10 seconds, then go back to Installer Programming and perform the [902] command.

If the module is connected but not showing as being present, it may be due to one of the following reasons:

- It is not connected to the Keybus
- There is a Keybus wiring problem
- The module is located too far from the panel
- The module does not have enough power
- No devices have been enrolled on the PC5132-RS

2.8 5132 Tamper

A PC5132 tamper will be logged to the event buffer or transmitted as a general system tamper under two conditions. It will first occur if the tamper terminals T1 and T2 on the PC5132-RS are open; the tamper will be restored by shorting out these terminals. Second, a tamper will be logged when the PC5132-RS detects an attempt to impede RF signals. This advises the monitoring station that the wireless zone transmissions are not being received by the modules.

2.9 Supervision of Wireless Zones

To allow a trouble to be indicated should a wireless zone stop operating or is removed from the system, enter the following at any keypad.

1. Press [★] [8] [Installer Code] to enter Installer Programming.
2. Press [804] to enter the PC5132-RS Module Programming.
3. Enter sections [82], [83], [84] and [85] to enable or disable supervision by turning the bits on or off.



The supervisory option for any panic pendants enrolled on the system must be OFF.

For UL Listed systems, the wireless zones must be programmed as supervised.

For UL Listed installation, Double EOL resistors must be enabled in the PC5010 for the wireless zones to be supervised. If normally Closed or Single EOL resistors are selected the PC5010 will not be able to supervise the wireless devices.

If a wireless device stops sending a supervisory signal (the unit stops functioning) the panel will not indicate a supervisory trouble condition unless Double EOL resistors are used. In addition, all hardwire zones must be wired for Double EOL resistors.

Programming Worksheets

S E C T I O N 3

[804] 5132-RS Wireless Expansion Programming

- 5 digit decimal entry is required
- First digit represents transmitter type (0, 1, 8-9 are not valid)
2=UTX/SLX, 3=PIR, 4=SMOKE, 5=Pendant, 6=Wireless Key,
7=Handheld Keypad
- Next 4 digits represent the serial number (valid entries are 0001 to 4094)

Zone Serial Numbers

Default = 00000

[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

Handheld Keypad Serial Numbers

Default = 00000

- | | |
|---|---|
| <p>[33] Keypad 01 <u> </u></p> <p>[34] Keypad 02 <u> </u></p> | <p>[35] Keypad 03 <u> </u></p> <p>[36] Keypad 04 <u> </u></p> |
|---|---|

Wireless Key Serial Numbers

Default = 00000

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

Handheld Keypad and Wireless Key Function Key Options

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

* Sensor Reset can be used when the PC5132-RS is connected to the PC5010. Command outputs are not available for PC5010 software version 1.XX.

**These can only be used for wireless key function keys and should not be used for the handheld keypad function keys.

Default = 00

Partition 1 Handheld Keypad Options

- | | |
|---|---|
| [57] Function Key 1 <input type="text"/> | [59] Function Key 3 <input type="text"/> |
| [58] Function Key 2 <input type="text"/> | [60] Function Key 4 <input type="text"/> |

Partition 2 Handheld Keypad Options

- | | |
|---|---|
| [61] Function Key 1 <input type="text"/> | [63] Function Key 3 <input type="text"/> |
| [62] Function Key 2 <input type="text"/> | [64] Function Key 4 <input type="text"/> |

Partition 1 Wireless Key Options

- | | |
|---|---|
| [65] Function Key 1 <input type="text"/> | [67] Function Key 3 <input type="text"/> |
| [66] Function Key 2 <input type="text"/> | [68] Function Key 4 <input type="text"/> |

Partition 2 Wireless Key Options

- | | |
|---|---|
| [69] Function Key 1 <input type="text"/> | [71] Function Key 3 <input type="text"/> |
| [70] Function Key 2 <input type="text"/> | [72] Function Key 4 <input type="text"/> |

Supervision

[81] Wireless supervisory Window
Default = 03

RF transmitter supervisory window (hours), valid entries are 01-12.

! ***Panic Transmitters are NOT supervised and must be disabled in the following sections.***

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

Default = ON	Option ON	Option OFF
<input type="checkbox"/> Option 1	Zone 01 Supervision enabled	Disabled
<input type="checkbox"/> Option 2	Zone 02 Supervision enabled	Disabled
<input type="checkbox"/> Option 3	Zone 03 Supervision enabled	Disabled
<input type="checkbox"/> Option 4	Zone 04 Supervision enabled	Disabled
<input type="checkbox"/> Option 5	Zone 05 Supervision enabled	Disabled
<input type="checkbox"/> Option 6	Zone 06 Supervision enabled	Disabled
<input type="checkbox"/> Option 7	Zone 07 Supervision enabled	Disabled
<input type="checkbox"/> Option 8	Zone 08 Supervision enabled	Disabled

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

Default = ON	Option ON	Option OFF
<input type="checkbox"/> Option 1	Zone 09 Supervision enabled	Disabled
<input type="checkbox"/> Option 2	Zone 10 Supervision enabled	Disabled
<input type="checkbox"/> Option 3	Zone 11 Supervision enabled	Disabled
<input type="checkbox"/> Option 4	Zone 12 Supervision enabled	Disabled
<input type="checkbox"/> Option 5	Zone 13 Supervision enabled	Disabled
<input type="checkbox"/> Option 6	Zone 14 Supervision enabled	Disabled
<input type="checkbox"/> Option 7	Zone 15 Supervision enabled	Disabled
<input type="checkbox"/> Option 8	Zone 16 Supervision enabled	Disabled

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

Default = ON	Option ON	Option OFF
<input type="checkbox"/> Option 1	Zone 17 Supervision enabled	Disabled
<input type="checkbox"/> Option 2	Zone 18 Supervision enabled	Disabled
<input type="checkbox"/> Option 3	Zone 19 Supervision enabled	Disabled
<input type="checkbox"/> Option 4	Zone 20 Supervision enabled	Disabled
<input type="checkbox"/> Option 5	Zone 21 Supervision enabled	Disabled
<input type="checkbox"/> Option 6	Zone 22 Supervision enabled	Disabled
<input type="checkbox"/> Option 7	Zone 23 Supervision enabled	Disabled
<input type="checkbox"/> Option 8	Zone 24 Supervision enabled	Disabled

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

Default = ON	Option ON	Option OFF
<input type="checkbox"/> Option 1	Zone 25 Supervision enabled	Disabled
<input type="checkbox"/> Option 2	Zone 26 Supervision enabled	Disabled
<input type="checkbox"/> Option 3	Zone 27 Supervision enabled	Disabled
<input type="checkbox"/> Option 4	Zone 28 Supervision enabled	Disabled
<input type="checkbox"/> Option 5	Zone 29 Supervision enabled	Disabled
<input type="checkbox"/> Option 6	Zone 30 Supervision enabled	Disabled
<input type="checkbox"/> Option 7	Zone 31 Supervision enabled	Disabled
<input type="checkbox"/> Option 8	Zone 32 Supervision enabled	Disabled

Partition Assignments

[90] Handheld Keypads (1-4) Partition Assignments

Default = OFF	Option ON	Option OFF
<input type="checkbox"/> Option 1	Keypad 1 on partition 2	On partition 1
<input type="checkbox"/> Option 2	Keypad 2 on partition 2	On partition 1
<input type="checkbox"/> Option 3	Keypad 3 on partition 2	On partition 1
<input type="checkbox"/> Option 4	Keypad 4 on partition 2	On partition 1
<input type="checkbox"/> Options 5-8	For future use	

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

Default = OFF	Option ON	Option OFF
<input type="checkbox"/> Option 1	Wireless Key 01 on partition 2	On partition 1
<input type="checkbox"/> Option 2	Wireless Key 02 on partition 2	On partition 1
<input type="checkbox"/> Option 3	Wireless Key 03 on partition 2	On partition 1
<input type="checkbox"/> Option 4	Wireless Key 04 on partition 2	On partition 1
<input type="checkbox"/> Option 5	Wireless Key 05 on partition 2	On partition 1
<input type="checkbox"/> Option 6	Wireless Key 06 on partition 2	On partition 1
<input type="checkbox"/> Option 7	Wireless Key 07 on partition 2	On partition 1
<input type="checkbox"/> Option 8	Wireless Key 08 on partition 2	On partition 1

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

Default = OFF	Option ON	Option OFF
<input type="checkbox"/> Option 1	Wireless Key 09 on partition 2	On partition 1
<input type="checkbox"/> Option 2	Wireless Key 10 on partition 2	On partition 1
<input type="checkbox"/> Option 3	Wireless Key 11 on partition 2	On partition 1
<input type="checkbox"/> Option 4	Wireless Key 12 on partition 2	On partition 1
<input type="checkbox"/> Option 5	Wireless Key 13 on partition 2	On partition 1
<input type="checkbox"/> Option 6	Wireless Key 14 on partition 2	On partition 1
<input type="checkbox"/> Option 7	Wireless Key 15 on partition 2	On partition 1
<input type="checkbox"/> Option 8	Wireless Key 16 on partition 2	On partition 1

Troubleshooting

S E C T I O N 4

- 1. When I enter the two digit zone number when 'Adding a Wireless Device' the keypad gives me a long beep.**

The panel will not allow you to enter ESN unless a PC5132-RS Wireless Receiver is connected to the Keybus. To enroll the module ensure the Keybus connections are correct then power down and power up the panel with the PC5132-RS Wireless Receiver connected to the Keybus.
- 2. I have entered the ESN for the device but when I violate it the zone does not show open.**

Ensure the ESN has been entered correctly and the zone is enabled for the partition. Also the zone, which must not be the same zone as a hardwired zone, must be programmed for something other than 'Null Operation'.
- 3. When I test a wireless device I constantly get Bad results.**

The device may be out of range or may have weak batteries. Try testing the device closer to the receiver or test the batteries to ensure they are good. Remember you must wait for at least 10 seconds between tests.
- 4. When I try a module placement test on the motion detector I get no result.**

Make sure the batteries are installed correctly. Also, the motion detector has 'High Traffic Shutdown'. To test the motion, first remove it then replace it on the backplate.
- 5. The LED on the motion detector does not come on when I walk in front of the unit.**

The LED is used for walk test purposes only. To put the unit in walk test mode, remove it momentarily from its backplate. For the next 90 seconds the LED will come on for three seconds every time the unit detects motion.

Guidelines for Locating Smoke Detectors

A P P E N D I X A

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. For these reasons, NFPA standard 74 requires smoke detectors to be installed outside of each sleeping area and on each additional story of the family unit.

The following information is for general guidance only and it is recommended that NFPA Standard 72 (**National Fire Protection Association, One Batterymarch Park, Quincy MA 02269**) be consulted and that the smoke detector manufacturer's literature be used for detailed installation instructions.

It is recommended that additional smoke detectors beyond those required be installed for increased protection. The added areas include: basement, bedrooms, dining rooms, furnace room, utility room and hallways not protected by the required detectors.

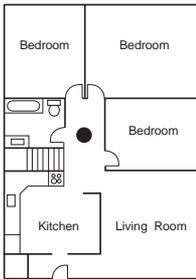


Figure 1: A smoke detector should be located between the sleeping area and the rest of the family unit.

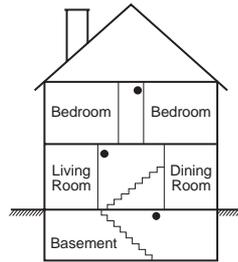


Figure 3: A smoke detector should be located on each story of the living unit.

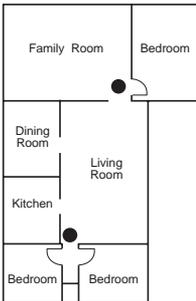
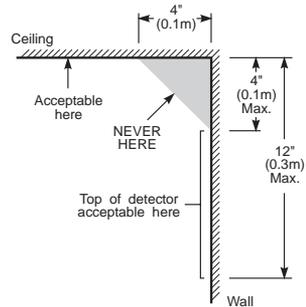


Figure 2: In the family living units with more than one sleeping area, a smoke detector should be located to protect each sleeping area.



NOTE: Measurements shown are to the closest edge of the detector.

! The Smoke Detector is designed to use Eveready Energizer E91 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.

Figure 4: Smoke Detector mounting - "Dead" Air Space. The smoke from a fire generally rises to the ceiling, spreads out across the ceiling surface and begins to bank down from the ceiling. The corner where the ceiling and wall meet is an air space into which the smoke may have difficulty penetrating. In most fires, this "dead" air space measures about 4 in. (0.1m) along the ceiling from the corner and about 4 in. (0.1m) down the wall as shown in Figure 4. Detectors should not be placed in the "dead" air space.

PC5132 v2.1 Notice of Software Release

The PC5132 Version 2.1 software incorporates several new programming sections for the support of the WLS-908 Panic Pendant and the WLS-909 Wireless Key Fob.

WLS-908 Panic Pendant

- Two button activation
- Built in test feature
- 5 year battery life

WLS-909 Wireless Key Fob

- Up to 16 can be enrolled to any system
- 4 function keys, 12 options
- Individually programmable by function key, not by fob

New Programming Sections

Sections [41] to [56] Key Fob Serial Numbers

These sections are used to program the Electronic Serial Number (ESN) of each key fob.

Sections [65] to [68] Partition 1 Key Fob Options

These sections are used to program the operation of each of the 4 function keys of every key fob assigned to Partition 1.

Sections [69] to [72] Partition 2 Key Fob Options

These sections are used to program the operation of each of the 4 function keys of every key fob assigned to Partition 2.

Section [81] Supervision Window

This section has moved from section [80] to [81].

Sections [82] to [85] Zone Transmitter Supervisory Option

Disable the option corresponding to the zone of all WLS-908 Panic Pendant zones as the pendant does not send a supervisory signal. If not disabled, the panel will indicate a supervisory trouble on the panic pendant zone.

Section [91] to [92] Partition Assignments

These sections are used to assign each key fob to a partition.



SEE BACK COVER FOR
NEW FEATURES OF V2.1

Installation Manual

IMPORTANT NOTE

When using the PC5132 version 2.X Receiver, after programming or defaulting the module, confirm that the data in sections [82] through [85] is correct.

DSC™
Power832™
SECURITY SYSTEM

PC5132-RS
Version 2.1

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.

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

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

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

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