PowerSeries – Wireless Zones

Receivers:
PC5132-433, LCD5501Z-433, RF5501-433

Panels:
PC5020 (Power864)

Overview:
The wireless receiver can be used to connect up to 32 wireless detection devices. Each wireless device requires a zone.

Programming wireless zones is an eight-step process:
- Connect the wireless receiver to the KEYBUS
- Programming the zone definitions
- Programming the zone attributes
- Programming the zone assignments
- Programming the Zone Serial Numbers
- Disabling the Supervision of Panic Zones
- Programming the Wireless Supervisory Window
- Performing a Module Placement Test

Program Sections:
- Section [001] – [002]  Zone Definitions
- Section [101] – [132]  Zone Attributes
- Section [202] – [261]  Partition Zone Assignment
- Section [804], [01] – [32]  Zone Serial Number
- Section [804], [82] – [85]  Zone Device Supervision
- Section [804], [81]  Wireless Supervisory Window
- Section [904], [01] – [32]  Module Placement Test

Step 1 – Connect the wireless receiver to the KEYBUS
Connect the four KEYBUS terminals of the wireless receiver to the four KEYBUS terminals of the main control panel.

Note: If the receiver is not connected to the KEYBUS the wireless data cannot be programmed.

Step 2 – Program the Zone Definitions
Before wireless zones will operate on the system, they must be defined.

[001] Zones 1 to 16 Definitions
[002] Zones 17 to 32 Definitions

Note: Only the first 32 zones can be programmed as wireless.
Note:  Do not define wireless zones as [07], [08] or [09]. If using wireless smoke detectors, program zone definitions [87] or [88].

Step 3 – Program the Zone Attributes

The panel must be told which zones are wireless. Turn Option [8] ON for all wireless zones in Sections [101] to [132].

Step 4 – Partition Zone Assignment

Before any zone will operate on the system, the zone must be assigned to a partition. Turn ON the correct toggle option in the appropriate Section for all zones preset on the system.

<table>
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<tr>
<th>Section</th>
<th>Assignment</th>
<th>Zones</th>
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<td>[202]</td>
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<td>[205]</td>
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<td>[210]</td>
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<td>[213]</td>
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<td>[218]</td>
<td>Partition 3</td>
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<td>[226]</td>
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<td>[234]</td>
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<td>[237]</td>
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<td>[242]</td>
<td>Partition 6</td>
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<td>[250]</td>
<td>Partition 7</td>
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<td>[258]</td>
<td>Partition 8</td>
<td>1 to 32</td>
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<td>[261]</td>
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Step 5 – Enroll Wireless Devices

Enter the ESN number for each wireless detection device in Section [804], subsection [01] to [32].

Note:  HEX digits may be present in the ESN number. Use the following table to program the HEX digits.

| HEX [A] | enter [*][1][*]
| HEX [B] | enter [*][2][*]
| HEX [C] | enter [*][3][*]
| HEX [D] | enter [*][4][*]
| HEX [E] | enter [*][5][*]
| HEX [F] | enter [*][6][*]

Step 6 – Disabling Supervision of Panic Zones

The wireless Panic Pendent (WLS918-433) does not send a supervisory signal. Supervision must be disabled for these zones to prevent the panel from generating a zone fault trouble condition. Turn the corresponding Option OFF in Section [804], subsection [82] to [85] for all wireless panic pendants zones.

Step 7 – Wireless Supervisory Window

Wireless transmitters check in with the wireless receiver every 64 minutes. The wireless supervisory window is programmed in 15-minute increments. For example, data [32] = 8 hours, data [96] = 24 hours. Program the desired supervisory window in Section [804], subsection [81]. If a signal is not received from the transmitter, a zone fault trouble will be generated.
**Step 8 – Perform a Module Placement Test**

All wireless transmitters must be tested. To test a wireless transmitter, enter Section [904], subsection [01] to [32] (the zone to be tested). Activate the device as indicated below:

- **WLS904-433** Create/restore a tamper by removing the back plate then replacing it
- **WLS906-433** Hold a magnet near groove marked on outer rim of bracket
- **WLS912-433** Create/restore tamper by pressing the Tamper Tab for five seconds
- **WLS914-433** Create/restore a tamper by removing the back plate then replacing it
- **WLS918-433** Module Placement Test is not available. Test the unit by activating the Panic alarm from various points throughout the installation to ensure proper reception
- **WLS925-433** Create/restore an alarm or create/restore a tamper

Wait at least 5 seconds between each test.

The panel will indicate the test result on the keypad:

**LED keypads:**
- LED 1 indicates GOOD placement
- LED 3 indicates BAD placement

**LCD Keypads:**
- 'Placement is GOOD' indicates GOOD placement
- 'Placement is BAD' indicates BAD placement

**Siren:**
- 1 squawk of the siren indicates GOOD placement
- 3 squawks of the siren indicates BAD placement

**Note:** The button on the WLS906 smoke detector is a local test only.

**Note:** If one transmitter tests BAD, move the transmitter. If several transmitters test BAD, move the PC5132 receiver.

**Technical Tips:**

1. When using zone expanders or addressable devices, make sure the wireless detectors are not assigned a zone already used on a PC5108 or as addressable.
2. The PC5132-433 will generate a Module Tamper if an RF Jam condition is detected. To disable RF Jam, turn ON option [7] in Section [804], subsection [90].
3. If good placement tests cannot be received from a transmitter, try moving the transmitter. If there is a problem with multiple detectors, try moving the receiver.
4. If the panel gives a long error tone when a wireless subsection is entered, it indicates the receiver is not connected to the KEYBUS.

**Quick Test:**

Violate all wireless detectors and verify all are displayed on the keypad.