

## PowerSeries - Programming Keypad Zones

### Panels:

PC5010 (Power832)

### Overview:

Each 'Z' version keypad has a zone input terminal. This zone input can be used as any zone on the system, from 1 through 32. If the keypad zone is assigned a zone number that is present on the main panel, it will replace the existing zone and the zone on the main panel will be disabled.

Programming keypad zones is a four-step process:

- Assign the keypad to a slot number
- Program a definition for the zone
- Assign the zone to the keypad slot
- Assign the zone to the partition

### Program Sections:

Section [000], [0]	Keypad Assignment
Section [001] – [004]	Zones 1 to 32 Definitions
Section [020]	Keypad Zone Assignment
Section [202] – [209]	Partition Assignment – Zones 1 to 32

### Step 1 – Keypad Assignment

To use keypad zones, each keypad must be assigned to its own slot (1 to 8). To assign a keypad to a specific slot, perform the following:

Enter [*][8] [Installer's Code]	Enter Installer's Programming
Enter [000]	Enter Keypad Assignment Section
Enter [0]	Enter Partition and Slot Assignment Section

Enter a two-digit number. The first digit is the partition the keypad will be assigned to, [0] for global operation, [1] for partition 1 or [2] for partition 2. The second digit is the slot the keypad will be assigned to (1 to 8).

**Note: DO NOT assign more than one keypad to the same slot.**

**Note: If LCD5500Z keypads are being used, one keypad must be assigned to slot [8] for downloading purposes.**

### Step 2 – Keypad Zone Definition

Zones must be defined before they will operate. Depending on the control panel being used, approximately 30 different zone definitions are available. Enter Section [001] – [004] and program the 2-digit number corresponding to the required zone definition for each zone.

Section [001] – Zones 1 to 8
Section [002] – Zones 9 to 16
Section [003] – Zones 17 to 24
Section [004] – Zones 25 to 32

### Step 3 – Keypad Zone Assignment

This Section is used to program which zone will be assigned to which keypad slot. Program the two-digit zone number that will be assigned to the keypad in the corresponding slot. Enter data [00] if no keypad is assigned to the slot # or if the zone input on the keypad will not be used.

For example:

An installation has three LCD keypads, assigned to slot [1], [2] and [8] (at least one LCD must be assigned to slot [8] for downloading purposes), to be used as zones 6, 7 and 8 respectively.

Program section [020] with the following data:

Keypad Slot #1 [06]	Keypad Slot #5 [00]
Keypad Slot #2 [07]	Keypad Slot #6 [00]
Keypad Slot #3 [00]	Keypad Slot #7 [00]
Keypad Slot #4 [00]	Keypad Slot #8 [08]

**Note:** Keypad zones cannot be assigned zone numbers that are already assigned to a PC5108 hardwire zone expander.

### Step 4 – Partition Zone Assignment

Zones will not function until they are enabled. Enable all zones being used by turning ON the appropriate option in Section [202].

Section [202] – [205]	Partition 1 Zone Assignments – Zones 1 to 32
Section [206] – [209]	Partition 2 Zone Assignments – Zones 1 to 32

**Note:** If the keypad zone is being assigned to Partition 2, ensure the partition is enabled in Section [201].

### Technical Tips:

1. Keypad zones will use the same EOL resistor option as the panel (normally closed or single end of line resistors).
2. Keypad zones do not support double EOL resistors (exception – RF5501-433 v5.0).
3. If a powered detector is being connected to a keypad zone, use RED and BLACK of the KEYBUS connection for power.
4. Keypad zones cannot be assigned zone numbers that are already assigned to a PC5108 hardwire zone expander.
5. A keypad zone will immediately go into alarm when the panel is armed if more than one keypad is assigned to the same slot.

### Quick Test:

Violate the keypad zone and ensure it is displayed on the keypad.