PowerSeries – Adding Addressable Zones

Panels:

PC580 (Power432), PC1555 (Power632)

Overview:

The PC5100 2-wire Addressable Device Interface Module can be used to connect up to 32 addressable devices. Each addressable device uses a 2-wire connection for power and to communicate with the control panel. This simplifies wiring and permits fast and efficient installations. Each addressable device requires a separate zone number.

Programming addressable zones has six-step process:

- Connect the PC5100 to the KEYBUS
- Connect the addressable devices to the PC5100
- Programming the zone definitions
- Programming the zone attributes
- Programming the zone assignments
- Programming the zone serial numbers

Program Sections:

Section [001] – [004]	Zone Definitions
Section [101] – [132]	Zone Attributes
Section [202] – [205]	Zone Assignment
Section [801], [01] – [32]	Zone Serial Number

Step 1 – Connect the PC5100 to the KEYBUS

Connect the four KEYBUS terminals of the PC5100 to the four KEYBUS terminals of the panel.

Note: If the addressable module is not connected to the KEYBUS the addressable data cannot be programmed.

Step 2 – Connect the Addressable Devices

Connect each addressable device to the STR + and STR – on the PC5100. All devices can be home-run, t-tapped or connected in a daisy chain. Addressable fire devices should be isolated from the burglary addressable devices using an addressable isolator (AMX-400, AML-770).

Step 3 – Program the Zone Definitions

Before addressable zones will operate on the system, the zones must be defined.

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

Note: Do not define addressable zones as [07], [08] or [09]. If using addressable smoke detectors, use zone definitions of [87] or [88].

Step 4 – Program the Zone Attributes

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

Step 5 – Zone Assignment

Before any zone will operate, the zone must be enabled on the system. To enable zones on the system, turn ON the correct toggle option in the corresponding section.

> Section [202] – Partition 1 zones 1 to 8 enable/disable
> Section [203] – Partition 1 zones 9 to 16 enable/disable
> Section [204] – Partition 1 zones 17 to 24 enable/disable
> Section [205] – Partition 1 zones 25 to 32 enable/disable

Step 6 – Enroll Addressable Devices

Enter the SN number (or Serial Number) for each addressable detection device in Section [801], subsection [01] to [32].

Note: Addressable detectors must be connected before they are enrolled. If a long tone is heard after entering the serial number, the detector is not connected properly or the number has been entered incorrectly.

Technical Tips:

1. When using zone expanders or wireless detectors, make sure the addressable detectors are not assigned a zone already used on a PC5108 or as wireless.
1. Addressable detectors cannot be downloaded. The serial numbers must be entered manually using a system keypad.
2. A *General System Trouble* will occur if the Addressable Loop is shorted.

Quick Test:

Violate the addressable zones and verify they are displayed on the keypad.