



# Product Summary Sheet

July 7, 2003 Rev001

## PC5100 – PowerSeries Addressable Interface Module

The PC5100 is the addressable interface module for the PC5010, PC5015 v.2.X and the PC5020 control panels. It allows a maximum of 32 addressable zones be added to the system.

All addressable series devices use a 2-wire connection for power and to communicate with the control panel. This simplifies wiring and permits fast and efficient installations.

### Specifications:

Module current draw: 40mA  
Maximum addressable loop draw: 170mA

### Calculating Current Draw:

The AML loop provides 170mA. Multiply the number of devices by their standby current rating to determine the maximum current draw on the loop.

Detector	Standby Current
AMS-220 Smoke Detector	0.8 mA
AMB-300 Motion Detector	2.5 mA
AMB-500 Ceiling-mount Motion Detector	2.5 mA
AMB-600 Pet-Immune Motion Detector	3.5 mA
AMA-100 Glassbreak Detector	3.5 mA
AMP-700/701 Contact Input Module	0.8 mA
AMP-702 Fire Point Module	1.1 mA
AMP-704 Point-Interface Module	3.4 mA

### Coverage Pattern Test:

1. Enter Installer Programming and turn ON Option [1] and [4] in Section [805], subsection [97] to test motion detectors and glassbreaks.
2. To test motions, create movement in front of the motion. The LED will turn ON when motion is detected
3. To test glassbreaks use the AFT-100 to test the glassbreak detector.
4. Once walk test has been completed, enter Section [97] and turn Option [1] and [4] OFF.

### Smoke Test on Installer Exit:

1. Enter [\*][8][Installer Code] and turn Option [2] ON in Section [805], subsection [97].
2. When programming is exited, the panel will put every AML smoke detector into alarm and verify it receives the alarm. It will then restore each detector and verify it receives the restoral. The entire test can take up to 10 minutes.
3. The test will end automatically when complete.

If a panel does not receive the alarm it will generate a trouble. If the panel receives the alarm but not the restoral it will generate an alarm.

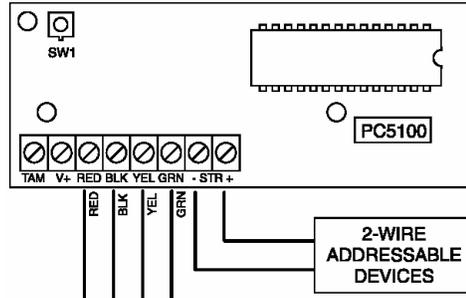
Note: An alarm on any zone not being tested will override the test and an alarm will occur.

### Scheduled Smoke Detector Communication Test:

1. Enter [\*][8][Installer Code] and turn Option [3] ON in Section [805], subsection [97].

The panel will perform a communication test on all AML smoke detectors every night at 11:00pm.

### Wiring:



**KEYBUS** Connect RED, BLK, YEL and GRN terminals to the KEYBUS of the main control panel.

**STR+/-** Connect addressable detectors to these terminals. Observe proper polarity. Devices can be home-run, t-tapped or connected in a daisy chain.

**TAM** Connect a NC switch or a jumper between TAM and COM to secure the tamper input.

### Enrolling Addressable Detectors:

1. Enter Installer Programming.
2. Enter Section [805].
3. Enter the 2-digit zone number for the addressable detector.
4. Enter the 5-digit serial number located on the back of the device.
5. Enter zone attributes for the AML zone and turn Option [8] ON to enable the zone as addressable.

### Troubleshooting:

1. Addressable detectors must be enrolled via a system keypad. They cannot be downloaded. If they are downloaded, the module will have to be defaulted.
2. The panel will generate an error tone when entering an addressable programming Section if the PC5100 module is not connected to the KEYBUS.
3. The detector must be enrolled to the control panel before it will operate.
4. The detector must be connected to the AML loop before it can be enrolled.
5. If the detector does not enroll, make sure the serial number is being entered correctly.
6. If the zone does not function:
  - a. Make sure the zone is assigned to a partition
  - b. Make sure the zone is defined
  - c. Make sure zone attribute [8] is enabled
7. Make sure the maximum current draw is not being exceeded.
8. The panel will display a *General System Trouble* if the AML loop is shorted.