

## Technical Tips –MAXSYS Modules

### LCD4501/LCD4521 – MAXSYS Liquid Crystal Display Keypad

1. The first keypad a key is pressed on will automatically enroll as keypad #01 and will be assigned to partition 1.
2. If the module will not enroll, try confirming the module to ensure it has not already been enrolled.
3. If the keypads are 'sluggish' ensure that the amount of capacitance on the COMBUS does not exceed 80 nanofarads. Do not use shielded wire for the COMBUS.
4. If a PC4020CF is used, all the function keys on all the keypads will default to the fire functions. The function keys on all keypads can be reprogrammed.
5. The PC4000 control panel does not support the function keys and Ready light.
6. If the control panel displays a 'COMBUS low power trouble' only when a keypad is used, it is an indication that a line loss issue is present. The minimum voltage applied to all modules should be 12.5 VDC. The keypads will display a COMBUS low power trouble when the voltage applied to them drops below 11.5 VDC.

### PC4108(A) – MAXSYS 8-Zone Hardwire Zone Expander

1. If the module will not enroll, try confirming the module to ensure it has not already been enrolled.
2. When enrolled, the panel will automatically assign zones to the module, based on the order they are enrolled.
3. The zones will not function until they have been added to a partition.
4. The EOL resistor (2.2K ohms or 5.6K ohms) required is determined by the module version, not the panel. Older PC4108 expanders require 2.2-K ohm resistors.

### PC4116 – MAXSYS 16-Zone Hardwire Zone Expander

1. If the module will not enroll, try confirming the module to ensure it has not already been enrolled.
2. When enrolled, the panel will automatically assign zones to the module, based on the order they are enrolled.
3. The zones will not function until they have been added to a partition.
4. The EOL resistor (2.2K ohms or 5.6K ohms) required is determined by the module version, not the panel. Older PC4116 expanders require 2.2-K ohm resistors.

### PC4204, PC4204CX – MAXSYS Power Supply/4-Relay Output Module

1. The AUX output of the PC4204 will be ~11 VDC if the module is not enrolled.
2. If the AUX output is less than 13.75 VDC ensure a 16 VAC, 40 V/A transformer is used and ensure not more than 1 A of current is being drawn.
3. If relay #1 is being used as a PGM output ensure the jumper is configured correctly.

### PC4216 – MAXSYS Low Current Output Expander Module

1. If an output is not functioning properly, ensure the PC4216 module is assigned to the correct group (pre-assigned or custom).
2. If the device connected to the PGM output requires more than 50 mA a relay will be required.

### PC4701 – MAXSYS Dual-Line Fire Dialer Module

1. The AML terminals on the PC4701 module are not used.
2. When sending a periodic test the module will alternate between line 1 and line 2 automatically.

### PC4936 - MAXSYS Audio Interface Module

1. Each intercom station must be homerun to the PC4936 Intercom module and shielded wire must be used.
2. Intercom stations may pick up COMBUS noise if shielded wire is not used for intercom stations. A steady 'clicking' sound will be heard in this case.

3. Intercom station #01 must be used as a door station.
4. The DND light will turn ON if incoming sounds are disabled.
5. If feedback occurs adjust the speaker and microphone levels. Each intercom station has a separate volume control for the speaker and microphone.
6. If both the red and green LEDs on the PC4936 module are ON, one or more of the intercoms stations has a short between the speaker and microphone wiring.
7. If the DND light is always ON, check to make sure incoming sounds are enabled.
8. If you hear a 'clicking' sound on the intercom stations, it is the COMBUS data being picked up. Either the dealer did not use shielded wire or the wire is not grounded properly.
9. If the dealer is experiencing feedback, adjust the speaker and microphone volume levels. It may be possible to correct feedback problems by opening a larger hole in the wall to change the internal acoustics of the station.
10. The LEDs on the PC4936 indicate talk/listen direction. If both LEDs are ON it indicates the microphone and speaker wires on one or more stations are shorted.
11. During a two-way audio session, the dealer will not be able to hear the central station if the zone used to initiate the call is silent (including the Panic Key alarm).