(3) (1) (1) (4) **System Diagnostics Mode**

System faults can occur if a PCB in the control panel or one of the repeater panels stops working. This may be due to a fault condition, loss of power, software lockup or memory checksum error.

A system fault can also occur if the internal PCB configuration or number of repeater panels has not been correctly set up in the panel wide programming options (2-1-2-3).

If the fault originates from the control panel's main PCB then no further interrogation is possible and the circuit board should be restored or replaced urgently.

The above code has been provided as a quick diagnosis tool to show which additional PCBs, repeater or network slave panels the control panel thinks it should have according to the programming set up, Vs, the actual PCBs and repeater/network panels it can see via it's internal monitoring capacity.

Enter the above code and press ENTER. The control panel will illuminate LEDs to show the set up. The red, fire LEDs indicate the configuration setting. The amber, fault LEDs indicate the presence of the PCBs, repeaters or network slave panels which the control panel thinks it should have according to the programming set up.

See table below.

LED Indicators	DIAGNOSTIC MODE Board Status afer entry 3114	Repeater Status Press Button 1	3114 Slave Panel Status Press Button 1	Local System Fault Press Button 2
FIRE LED OFF	NONE SET	NONE SET	NONE SET	N/A
FIRE LED STEADY	CONFIGURED	CONFIGURED	CONFIGURED	N/A
FAULT LED STEADY	BOARD PRESENT	REPEATER PRESENT	SLAVE PRESENT	N/A
FAULT LED PULSING	N/A	PRESENT WITH LOCAL FAULT	PRESENT WITH LOCAL FAULT	SYSTEM WATCHDOG
Z1	Ext Zone Card 1	Repeater 1	Slave Panel 1	Main Processor PCB
Z2	Ext Zone Card 2	Repeater 2	Slave Panel 2	Display PCB
Z3	Comms PCB (TPCA05)	Repeater 3	Slave Panel 3	Ext Zone Card 1
Z4	Output Card 1	Repeater 4	Slave Panel 4	Ext Zone Card 2
Z5	Output Card 2	Repeater 5	Slave Panel 5	Comms PCB (TPCA05)
Z6	Output Card 3	Repeater 6	Slave Panel 6	Power Supply PCB
Z7	Output Card 4	Repeater 7	Slave Panel 7	Output Card (TPCA08)
Z8		Repeater 8		Power Up

Any differences shown here can then be investigated and corrected either by restoring or replacing PCBs or correcting the configuration settings in the panel wide settings mode 2-1-2-3. Pressing button 1 will show the repeater panel status's, pressing button 1 again will show the status of the network slave panels.

The LEDs will display for 10 seconds and then the panel will automatically exit the diagnosis mode. Pressing button 2 will reveal the origin of a system fault indication.

Note: After power up, the system should be allowed to initialise for 2 - 3 minutes before using this code otherwise false indications could occur. If in doubt, re-enter the code a second time to check.