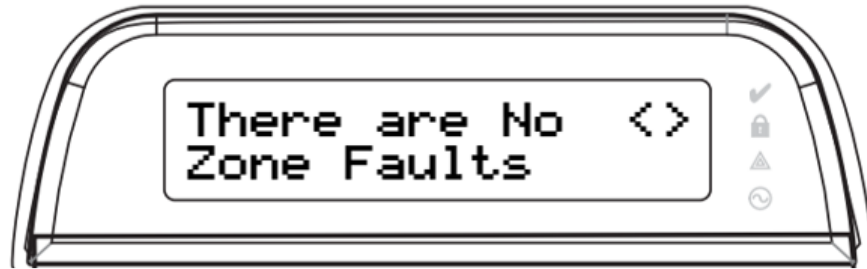# There Are No Zone Faults?

PowerSeries PC1616 / PC1832 / PC1864 v4.62

"There are No Zone Faults" – What happened? What is the cause? How to clear it?

Due to the recent changes in the PowerSeries v4.62 panels and UL985 6th edition Residential Fire requirements, all system troubles are required to be acknowledge by the system user [1]. As a result, if a zone fault occurs and then is restored the panel will not automatically clear the memory of the trouble. Once the zone fault(s) are restored, the panel will no longer display the specific zone fault information, but the memory of the trouble is still there; which causes the system to display "There are No Zone Faults".

Zone faults can occur as a result of one or more of the following conditions:

   a) An short circuit on a DEOL alarm loop
   b) An open circuit on a Fire alarm loop
   c) An open circuit on a CO alarm loop
   d) An open circuit on a 24 Hour Supervisory alarm loop
   e) A wireless device missing the WLS supervisory window [2]

> ➢ ***Tech Tip:*** When reviewing System Troubles under [*] [2] and the display indicates that "There are No Zone Faults"; press [9] to clear the Zone Fault memory.

> ➢ ***Tech Tip:*** Power cycling the panel after clearing the zone fault will also clear the memory of the Zone Fault trouble. [*] [2] [9] is easier and faster!

> ➢ ***Tech Tip:*** If needed, review the Event Buffer ([*] [6] menu) for the history of what caused the fault.

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[1] End User, Technician, etc.
[2] NA version - 24 hour supervisory window; EU version - 2 – 2 ½ hour supervisory window

There Are No Zone Faults?

When using an ICON or LED style keypad, the zone fault will represent as Trouble [5], press the [5] key to determine the specific zone / condition that has caused the fault trouble. If no additional information is revealed, press the [9] key to clear the memory of the restored Zone Fault condition.

Trouble [5] Zone Fault	Press [5] to determine specific zones with a fault trouble	
	Open circuit is present on one or more fire zones on the main panel or zone expander	• Ensure fire zones have a 5.6K resistor (Green, Blue, Red) connected • Remove the wire leads from Z and COM terminals and measure the resistance of the wire leads - An open circuit indicates a break in the wiring or resistor not connected • Connect a 5.6K resistor (Green, Blue, Red) across the Z and COM terminals. Verify the trouble condition clears
	An open circuit is present on PGM2 being used as a 2-wire smoke detector input	• Ensure the correct 2.2K end-of-line resistor is connected (Red, Red, Red) • Remove the wire leads from PGM2 and AUX+ terminals and measure the resistance of the wire leads - An open circuit indicates a break in the wiring or no resistor connected • Connect a 2.2K resistor (Red, Red, Red) across the PGM2 and AUX+ terminals. Verify the trouble condition clears
	One or more wireless devices have not checked in within the programmed time	• If the trouble occurs immediately, a conflict with a hard wired zone exists: - The zone being used is already assigned to a PC5108 zone expander - The zone being used is assigned as a keypad zone • Perform a Module Placement Test – Program Section [904] and verify the wireless device is in a good location - If bad test results occur, test the wireless device in another location - If the wireless device now tests good, the original mounting location is bad - If the wireless device continues to give bad test results replace the wireless device
	A short circuit is present on one or more zones with double end-of-line resistors enabled	• Remove the wire leads from Z and COM terminals and measure the resistance of the wire leads - A short circuit indicates a short in the wiring • Connect a 5.6K resistor (Green, Blue, Red) across the Z and COM terminals - Verify the trouble condition clears

Zone types that can create a Zone Fault condition:

- ➢ (07) Delay 24-hr Fire
- ➢ (08) Standard 24-hr Fire
- ➢ (09) 24-hr Supervisory
- ➢ (29) Auto-Verified Fire
- ➢ (30) Fire Supervisory
- ➢ (41) 24-hr Carbon Monoxide
- ➢ Any DEOL zone application
- ➢ Any supervised wireless zone