

pCO_e_Disconnected_Alarm

"pCO_e Disconnected" alarm is triggered if the E2 controller loses modbus communication with an expansion board. The function of the Expansion Board is to provide more inputs/outputs than the standard controller provides. The alarm will appear on the E2 alarm screen as shown below. The binary dipswitches on the expansion card allows the card to be addressed as 1,2,3 or 4. The expansion board address designates the expansion board's function. The alarm screen will display the expansion board address for which it has lost communication. Using the example as shown in Figure#1: The E2 controller was configured for underfloor static pressure sensors. That would require an expansion board (#2). The E2 controller is not communicating to #2 expansion board and is consequently displaying the alarm shown.

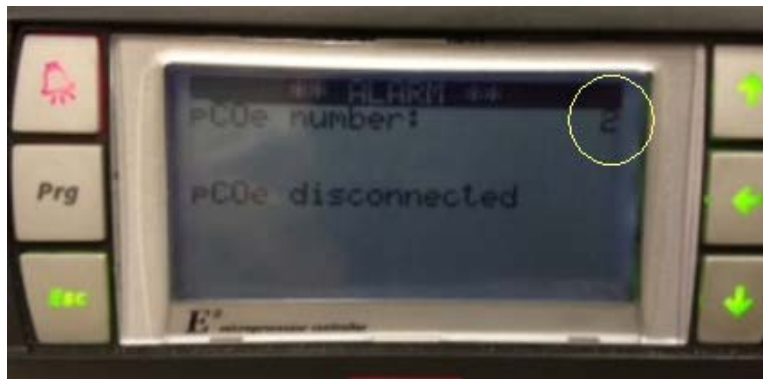


Figure #1

The alarm will also be accompanied by a "Generic error" displayed in the Factory>Modbus>Config screen.

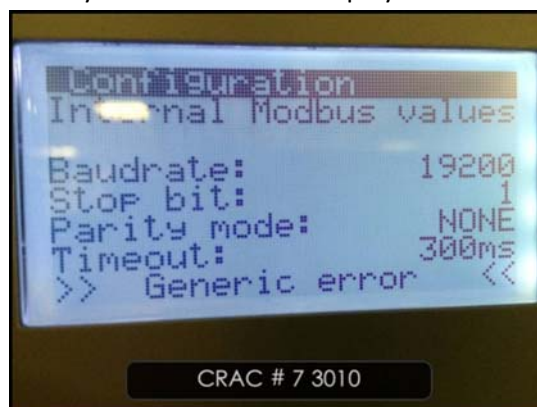


Figure #2



globally close to you



Product Support

Figure #3 is typical E2 controller to expansion board wiring.

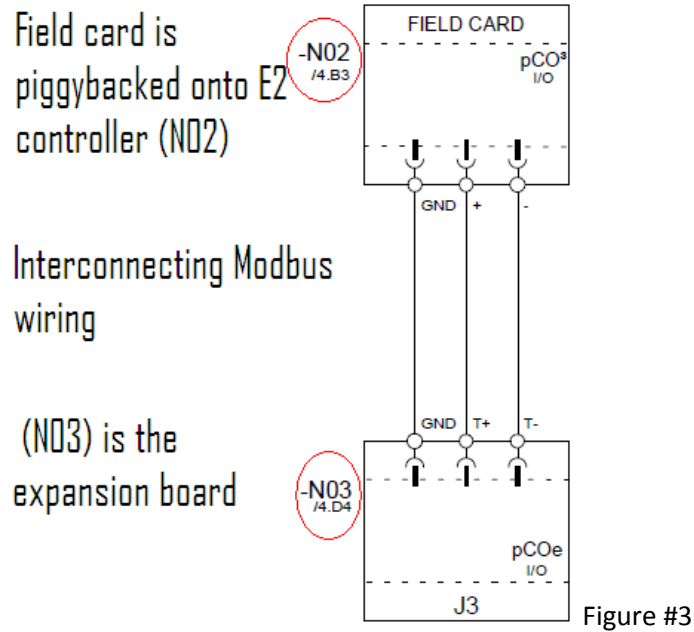
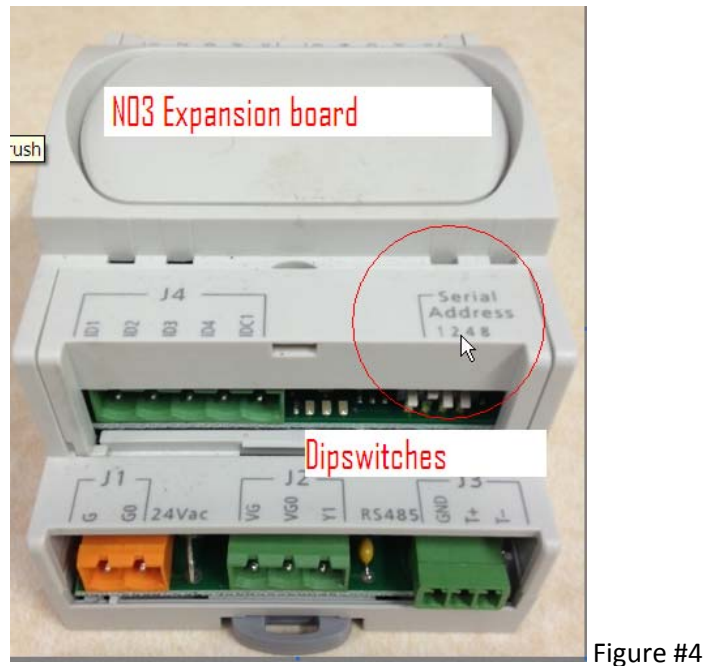


Figure #4 is the Expansion Board. Dipswitch location is shown.



What to check if an alarm occurs:

If the alarm occurs at startup or the unit has operated correctly in the past, the problem is most likely a loose connection.

- 1) Power off the unit main disconnect.
- 2) Locate and remove the field card at the E2 controller.(Figure #5)
- 3) Carefully reseat the card back onto the E2 controller.
- 4) Verify/Tighten the 3 wire connection at the field card and expansion card (Figure #3)
- 5) Power ON unit and verify alarm has been cleared.



Figure #5

Other possible causes for the alarm:

- 1) The dipswitch setting is wrong (Consult tech support for dipswitch assignment)
- 2) The E2 controller has been erroneously configured for an option that requires an expansion board but no expansion board is installed
- 3) Faulty Field Card
- 4) Faulty Expansion Board