

How to Replace the Centurion Configurable Controller Model C4-1 with C5 Series Emulating C4-1

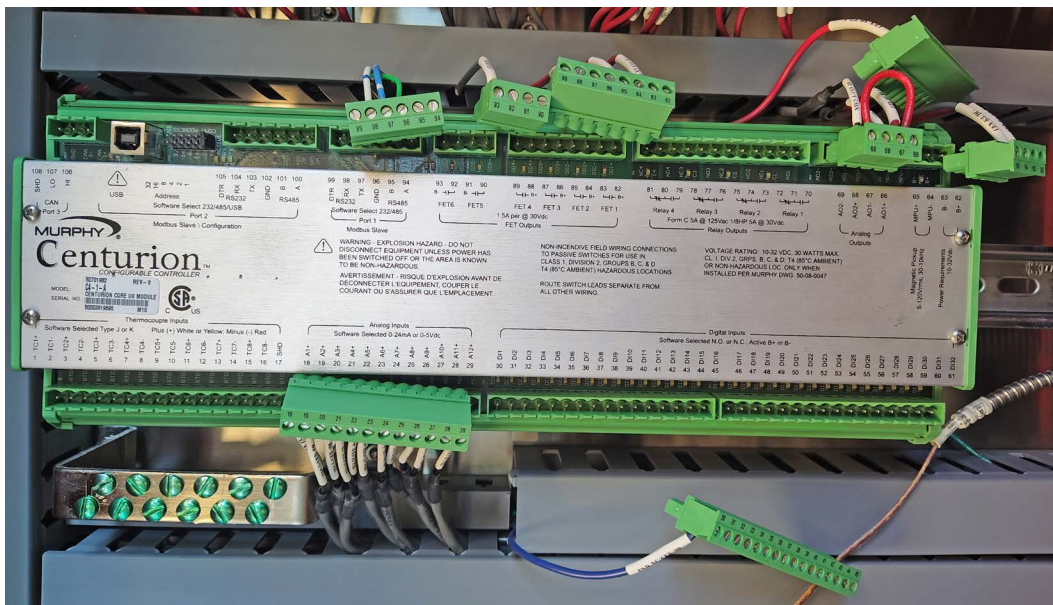
Please observe the wire changes below when exchanging the C4-1 with a new C5 Series controller.

NOTE: The firmware 50333950 enables C5 Series hardware to function as a C4-1 controller.

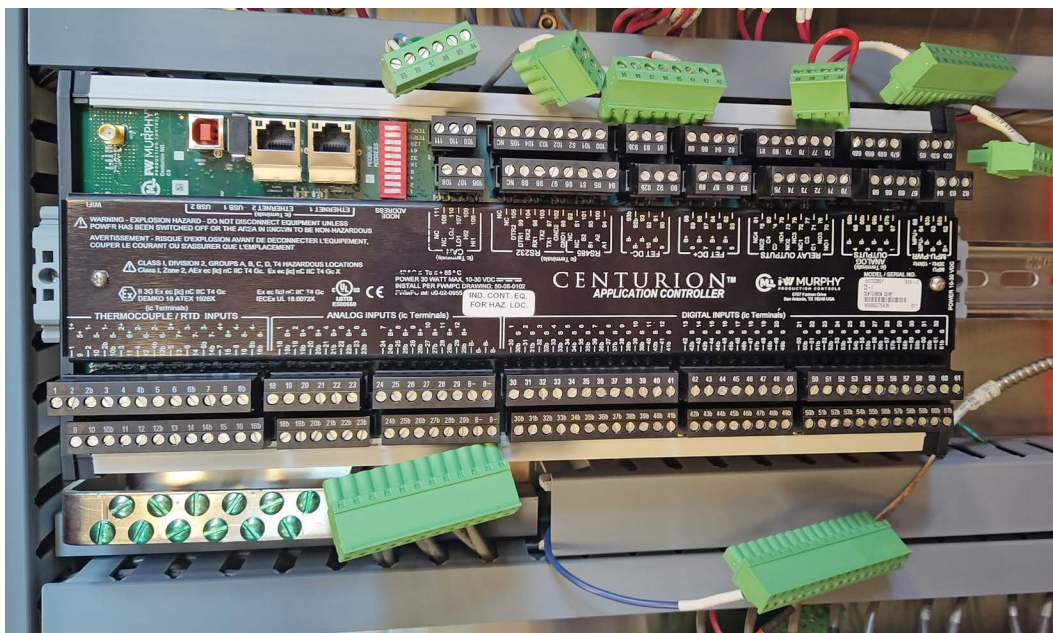
Wiring Changes

C5 Series refers to our C5-1 or C5-2 controllers. Each operates the same. This document covers both, even though the C5-1 is pictured.

- Carefully unplug the terminal block connectors from the C4-1 and remove the board from the DIN rail. Leave the wires connected to the old terminal plugs for now.



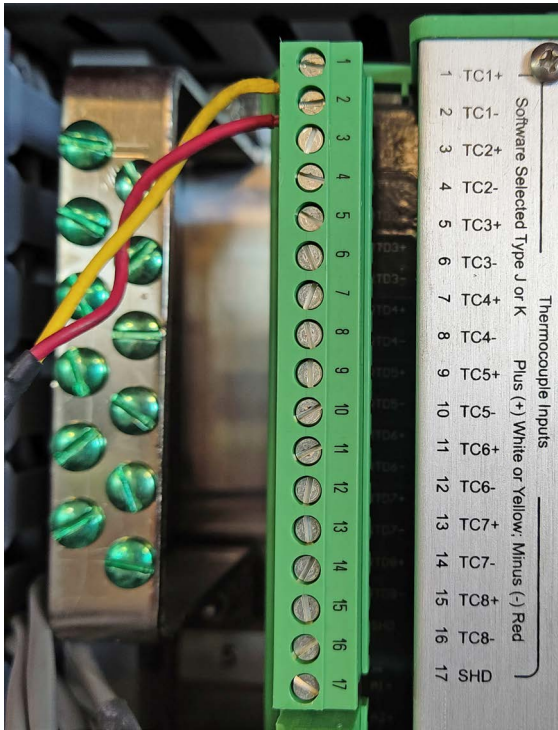
- Mount the C5 controller on the DIN rail. The length is the same, but the board is 1/4 in. wider on each side.



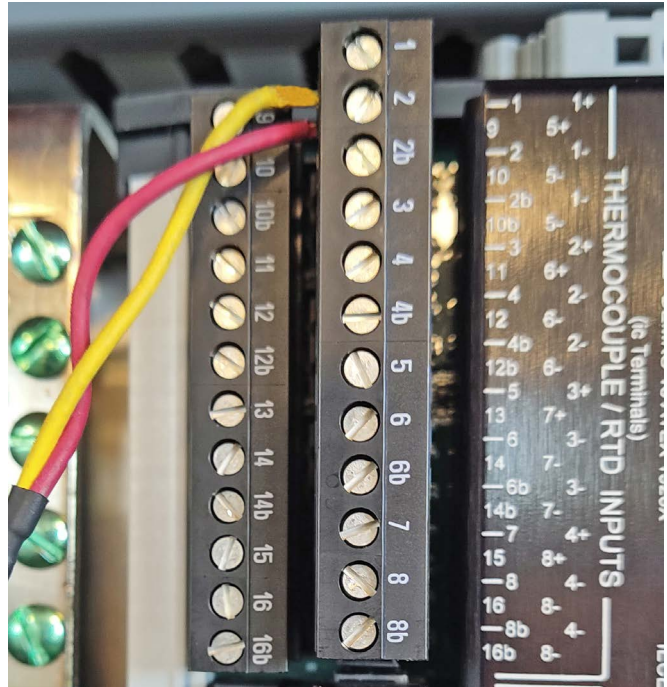
- Carefully remove each wire from the C4-1 connectors and attach them to the C5 connectors, matching terminal numbers from the old to the new terminal. The numbers match up to the original C4-1 pin I/O function.

NOTE: It is normal to have unused terminals that did not exist on the original C4-1 for analog and digital input wiring.

Example 1: Shows old to new Thermocouple Wiring for input 1. The terminals labeled with "b" are not used.



C4-1

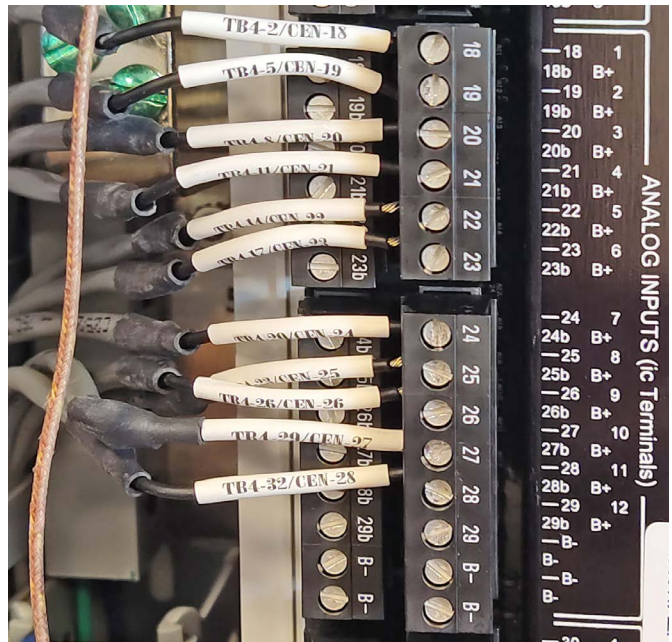


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Example 2: Shows old to new Analog Input Wiring. The lower row of terminals labeled with "b" are not used.

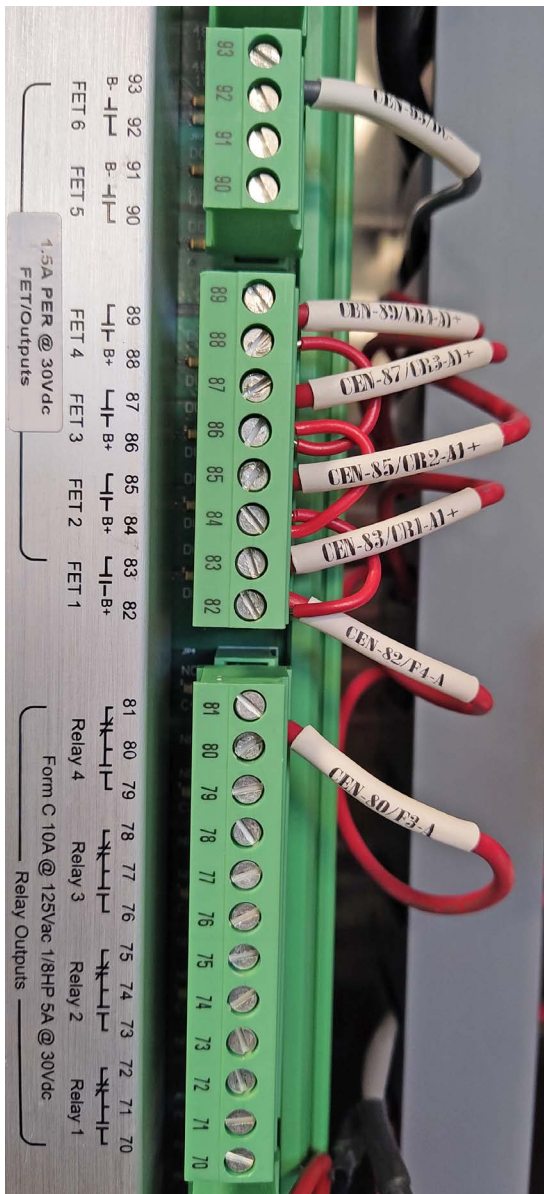


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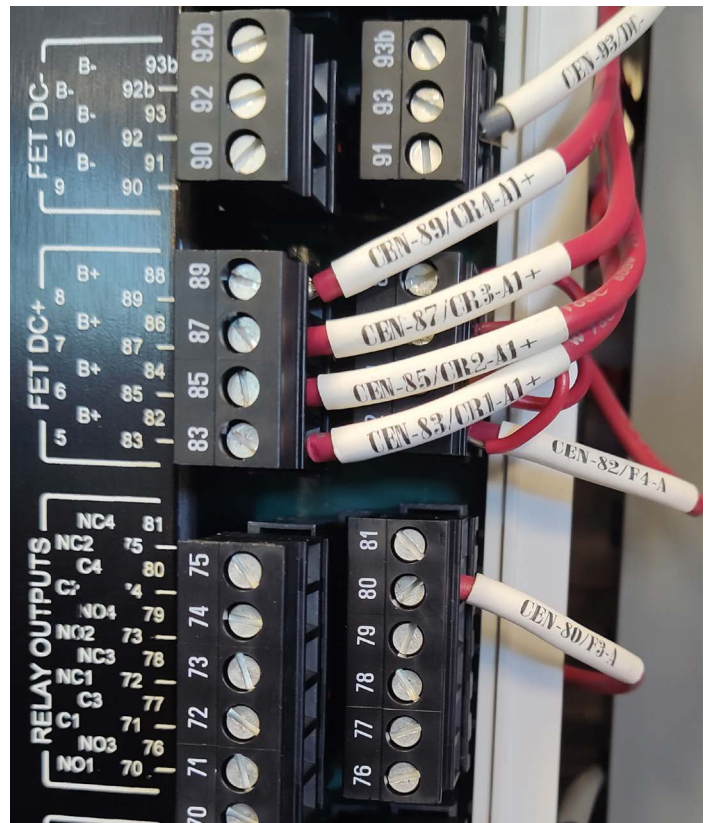


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Example 3: Shows old to new Digital Output Relay and FET Wiring.

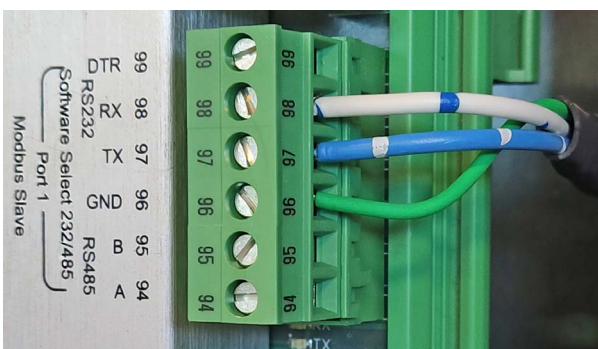


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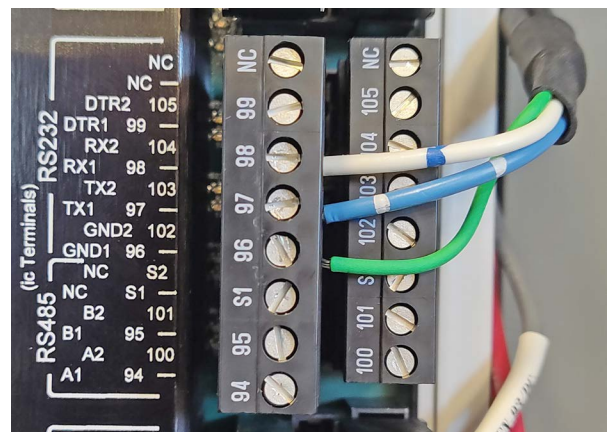


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Example 4: Shows old to new RS232 Wiring to the M-View Display.



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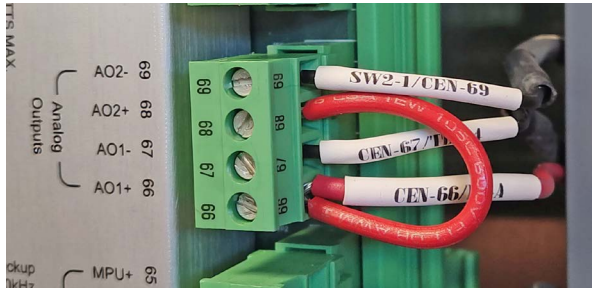


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- The analog output wires that were on terminals 66 and 68 should be cut, taped off and left unused. Often these were jumped across, so the jumper can be removed altogether. Only wires 67 and 69 connect to the matching numbers on C5 controller.

Example 5: Shows old to new Analog Output Wiring.

Note: Jumper wire is removed and discarded. Wire 66 is taped off and positioned out of the way.



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Wire 66 taped off and not used



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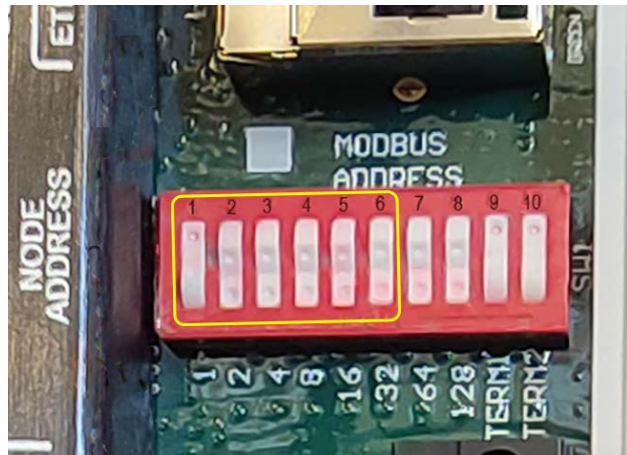
- Match the Port 2 Address jumper position to the SW1 MODBUS ADDRESS position 1 thru 6 on C5 controller. If a jumper is installed, set the switch to the Closed position (toward the MODBUS ADDRESS) text.

Example 6: Address 1 has jumper installed.

Example 7: Shows 1 set at Closed position, with rocker down toward the 1 on the switch.



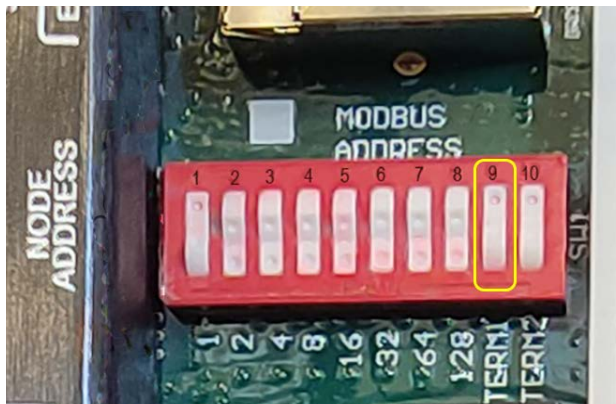
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- Verify MODBUS ADDRESS 9 is set at Closed position. This is used for CAN communication to any installed MX expansion modules.

Example 8: Shows 9 set at Closed position, with rocker down toward the 9 on the switch.



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