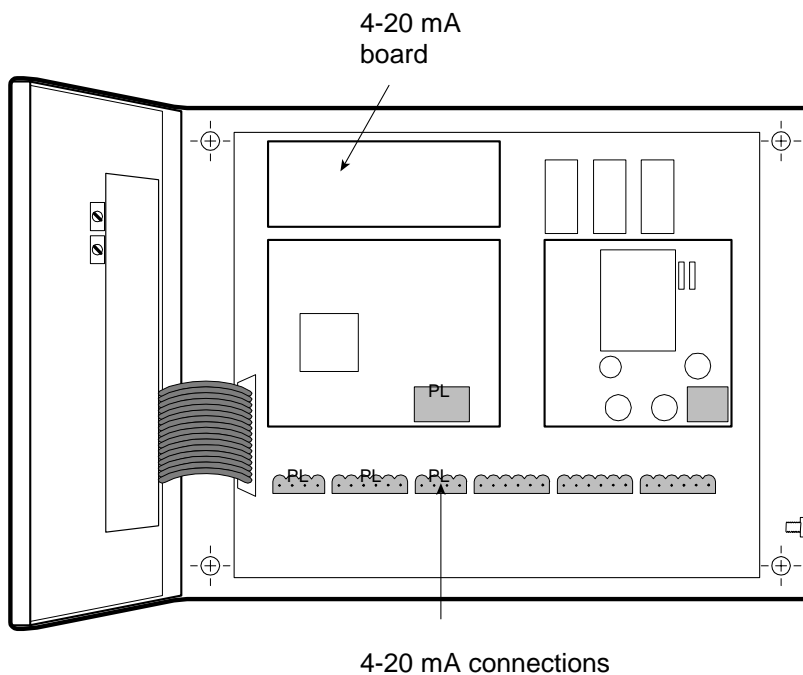
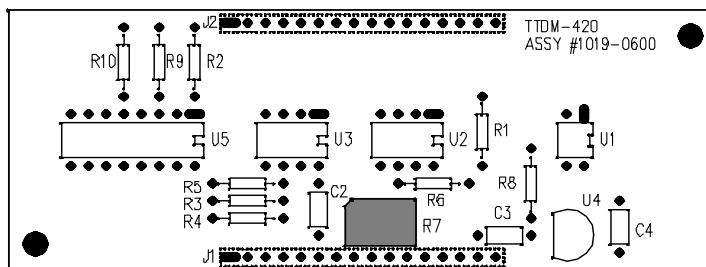


Checking TTDM 4-20 mA Function

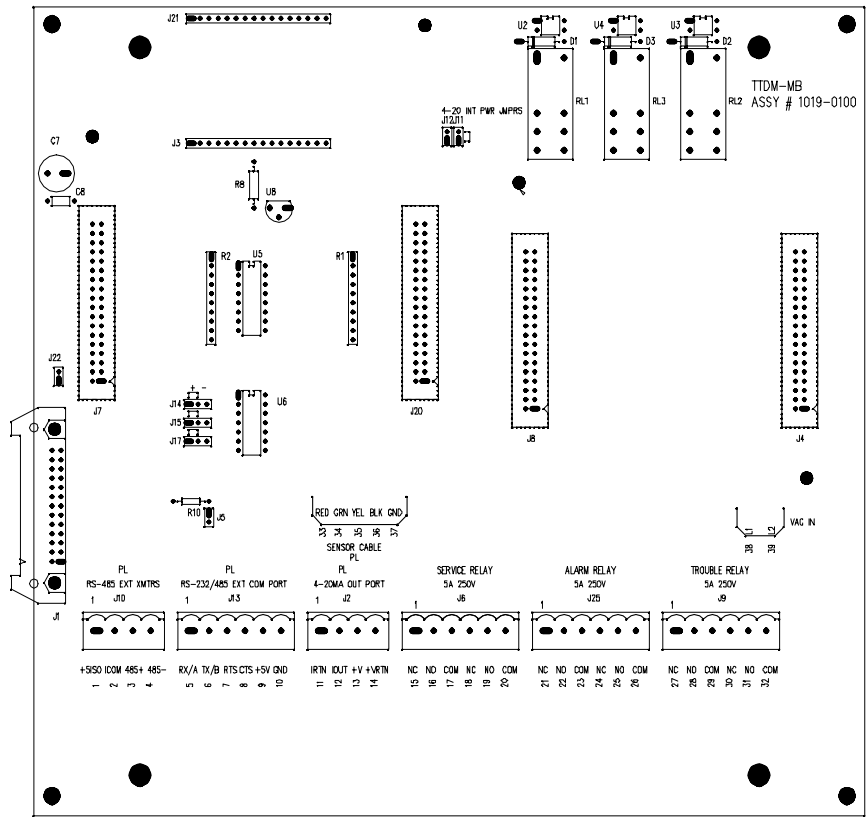


1. Confirm that 4-20 mA was replaced after installation of TTDM.
2. Confirm that 4-20 mA is right side up (text should be right side up, as shown in close to full size illustration of 4-20 mA board below).



3. Confirm that all pins (in J1 and J2 of 4-20 board) are properly aligned with connectors on TTDM mother board.

4. If the 4 - 20 mA current loop is (as recommended on page 4 of the TTDM Operation and Maintenance Manual, H55472) powered by an external 24 Vdc power supply, confirm that there are **not** jumpers in place at J11 and J12 on the motherboard (located to the right of the 4-20 mA board; motherboard layout is illustrated below). If jumpers are present, remove them.



5. Confirm that the ribbon cable connecting the TTDM mother board to the User Interface board on the enclosure door is making a good connection; disconnect and reconnect to ensure proper contacts.

6. Confirm that polarity is correct on external wiring connections to 4-20 mA port (as described on page 4 of TTDM Operation and Maintenance Manual, H55472). Check that voltage has been applied between TTDM pins J2-13 and J2-14 (+V and +VRTN) using a digital multimeter.

7. If unit does not perform as expected, isolate the TTDM and test it separately:
- isolate the TTDM 4-20 mA plug from the external loop (disconnect the terminal block).
 - For testing purposes, install jumpers J11 and J12 on TTDM motherboard; this will power 4-20 loop from TTDM power supply for this test.
 - Connect a digital multimeter between pins J2-11 and J2-12 (IRTN and IOUT) and measure the current flow to determine if the TTDM 4-20 mA current loop is operating properly.