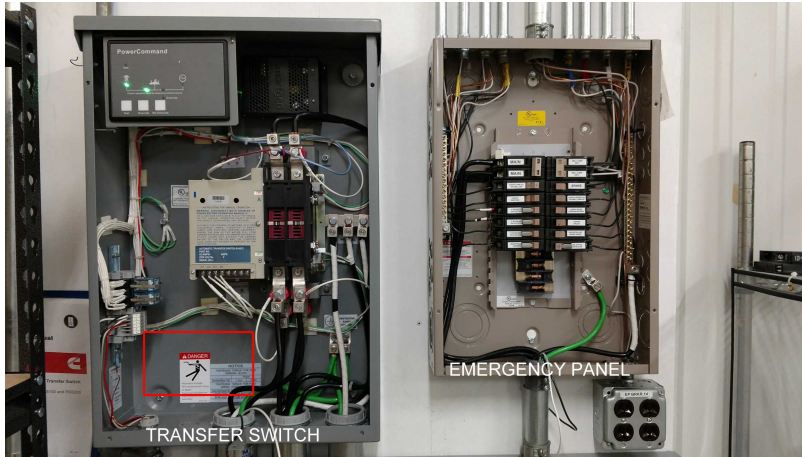


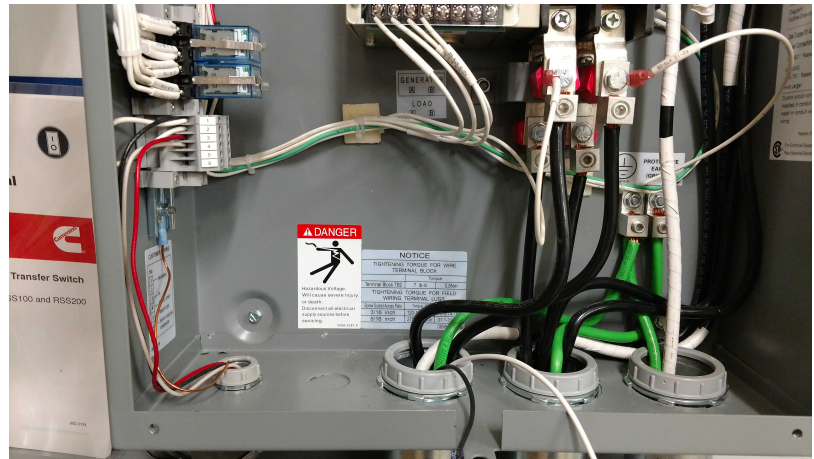
M328V2/M327V2 INSTALLATION

This is an example installation on an Onan single phase 240v 100 amp transfer switch. We will be installing the M328V2 and the M327V2 for remote access as well as notifications.



First locate a flat surface clear of any existing wiring. In this transfer switch the lower left corner is available with minimal modifications.

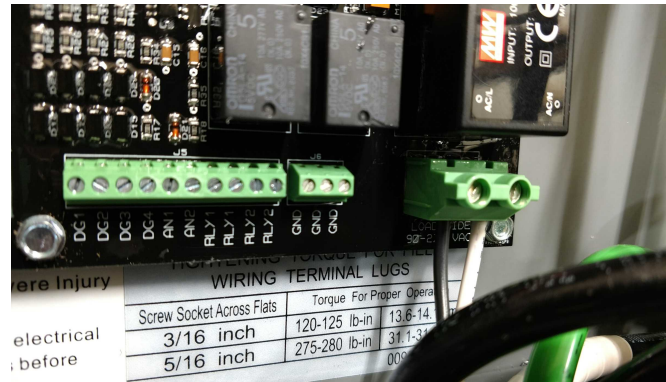
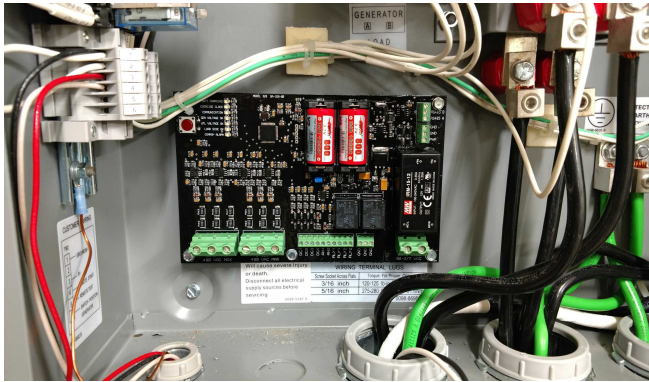
1. Disconnect power from the transfer switch. With the power removed, clear the area of any wiring and secure. Marking and pre-drilling holes for mounting will make the installation much easier. You may want to relocate any labels as well.



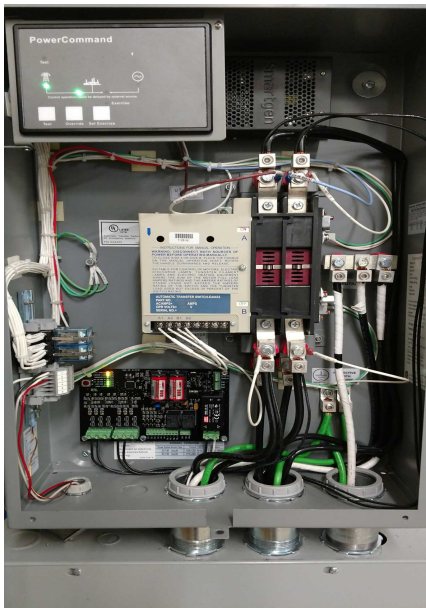
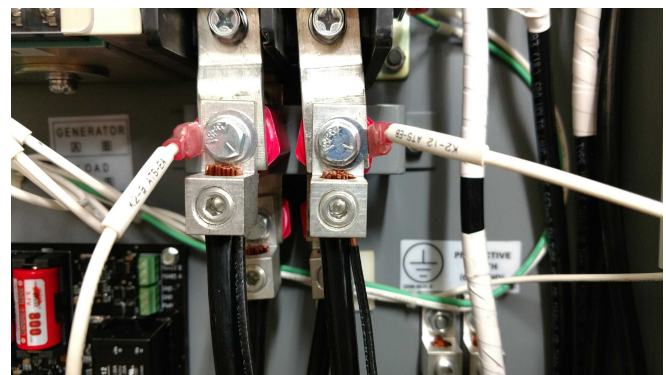
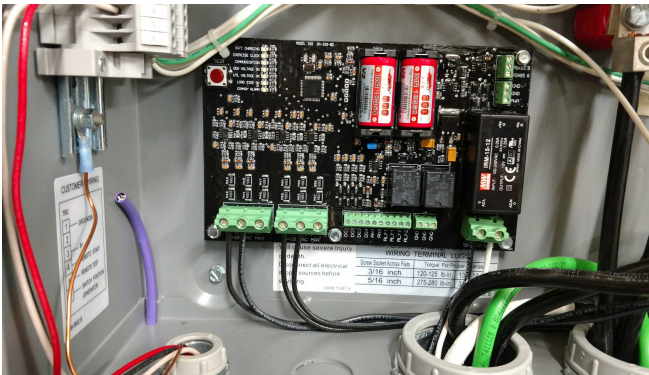
2. For convenience, install a breaker in the load side panel and run a power connection from the emergency panel to the transfer switch. This will make it easy to hard reset the M328V2 if needed.



3. Using 5 self tapping screws, install the M328V2. Connect the load side power to the load side connection on the board. For this example we are connecting line to neutral. Polarity is labeled on the power supply. For a line to line installation polarity does not apply.

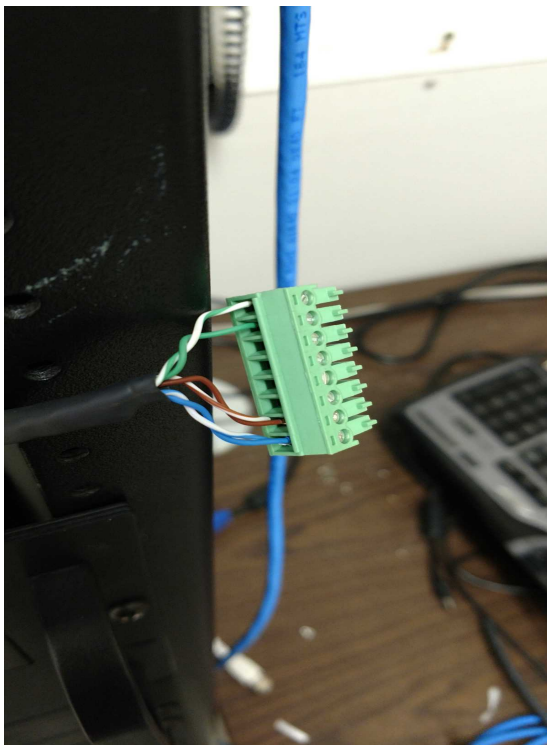
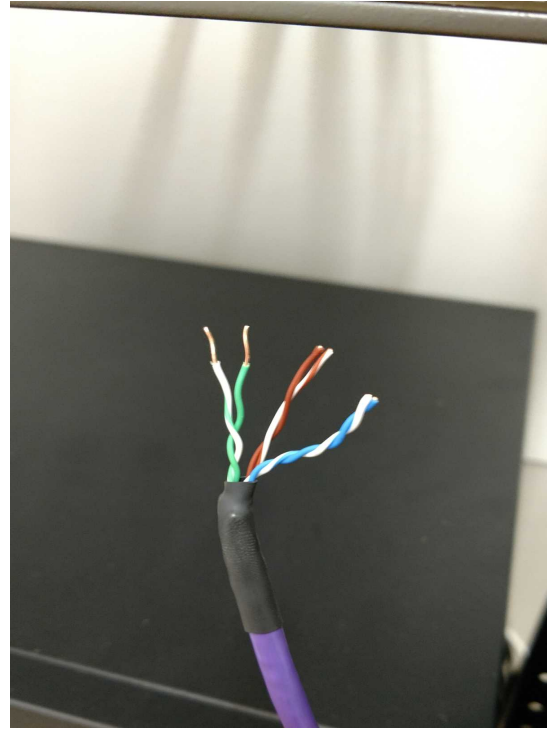
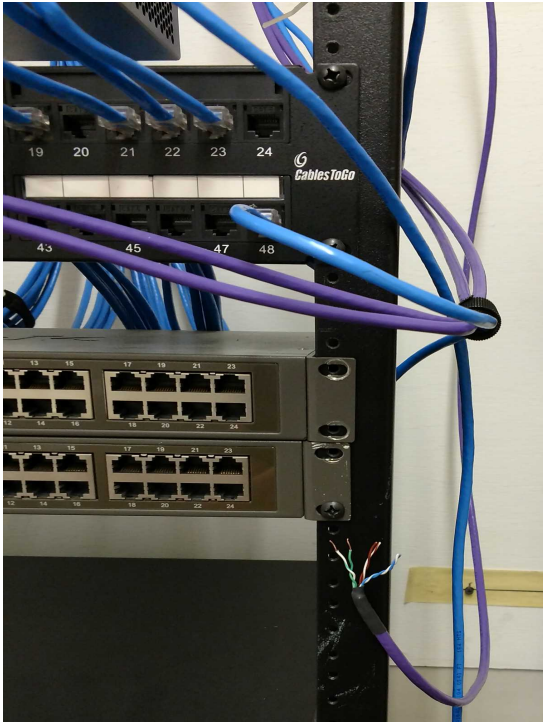


4. Install connections for single phase line to line on both generator and utility using terminals A and B. Route these connections to the corresponding lugs on the transfer switch.



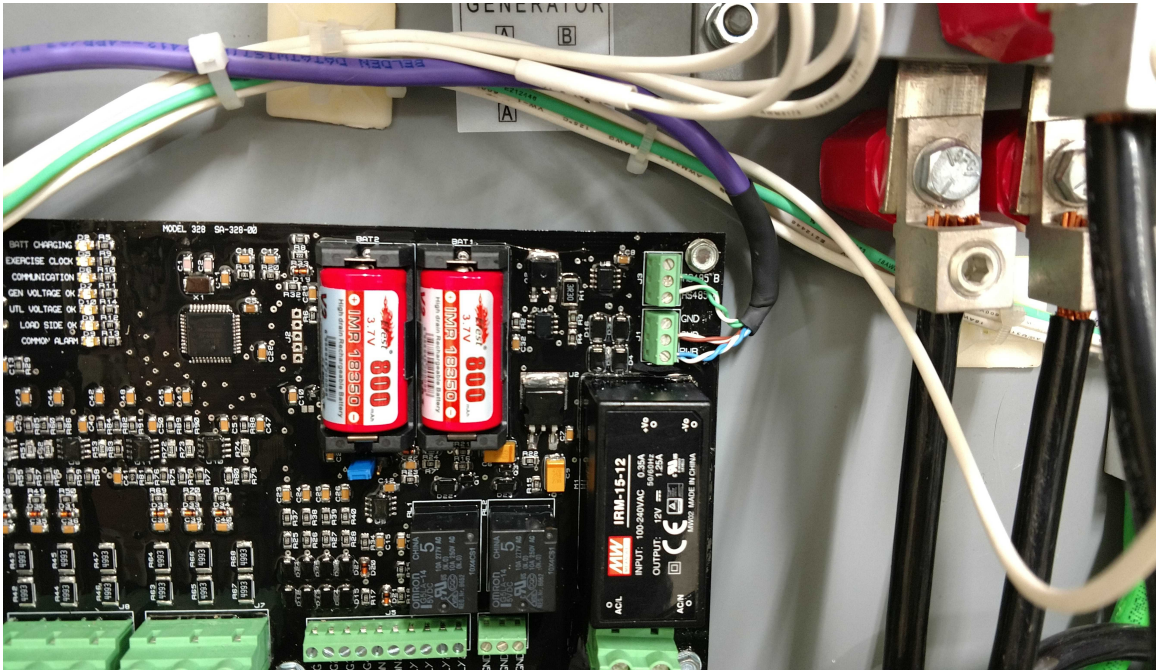
5. Now that all of the high voltage connections are complete, run a low voltage connection for the modem and route the wire thru the transfer switch. For the modbus connection, belden shielded twisted pair is recommended. In this installation we are using standard CAT 5E ethernet cable.

6. Run the low voltage power and communication line to a convenient location for mounting the modem. Location will be different depending on the type of modem. For cellular, pick the location for best signal. In this example we are mounting the modem in the data center. We are using one twisted pair for power, one twisted pair for ground, and one twisted pair for RS485 A&B.



7. Now terminate the power and communication cable into the modem connector. Do not plug the connector into the modem yet. Wait until the connection has been made at the transfer switch to prevent accidentally landing a wire in the wrong position and possibly damaging the modem.

8. Next make the connections to the M328V2 observing polarity. Install the jumper for the backup battery. Secure all wiring and restore power to the transfer switch.



9. Check all wiring before plugging in the modem. If you are using the ethernet module, plug in the ethernet connection before applying power to the modem. Plug in the main power connector .

