CTRL200-A201 Controller Installation Guide

Telect®

CTRL200-A201 Controller Installation Guide

Part Number 139704

About Telect

Telect offers complete solutions for physical layer connectivity, power, equipment housing and other network infrastructure equipment. From outside plant and central office to inside the home, Telect draws on more than 25 years of experience to deliver leading edge product and service solutions. Telect is committed to providing superior customer service and is capable of meeting the dynamic demands of customer and industry requirements. This commitment to customer and industry excellence has positioned Telect as a leading connectivity and power solution provider for the global communications industry.

Technical Support

www.telect.com>support>technical assistance center or
http://www.telect.com/www/Support/TechnicalAssistanceCenter.aspx

(Make sure to have your login and password available. If you do not have a login and password, contact your local market manager.)

Phone: 888-821-4856 (From 8:00 a.m. to 4:00 p.m. PT)

After hours, for critical, service-affecting calls ONLY, please have your equipment serial numbers and date of manufacture available in order to process the call.)

Email: telect.tac@telect.com

CTRL200-A201 Controller Installation Guide

Table of Contents

List of Figures

CTRL200-A201 Controller Installation Guide

1.1 BEFORE You Go to the Field

ALERT

ALERT! Only trained and qualified personnel may perform this procedure.

ALERT

ALERT! You must download the appropriate config file to your laptop from the portal shown below BEFORE going to the field to replace the CTRL200-A201 Controller. Please contact your local market manager field technician if you don't already have a password and login to access this portal.

To find your documents,

1. Go to http://www.telect.com/www/Support/TechnicalAssistanceCenter.aspx.
2. At the Telect screen shown in Figure 1, go to **Docs and configs** on the left-hand side.
3. Find the finished goods part number you are looking for in the table that appears, then find the link to the config file and I/O Reference List.
4. Download both files to your PC.

Figure 1 - T-Mobile Portal

1.2 Replacing the Controller in the Controller Assembly (at the site)

You will be replacing the Controller while the enclosure is still operating. Make sure you have your new DCtools configuration loaded on your laptop and an available, standard USB-AB cable before you begin this procedure. The enclosure must be powered ON during the procedure.

1. Remove the screw cover from the old controller using a fingernail or small sharp object to gain access to the Phillips screw.

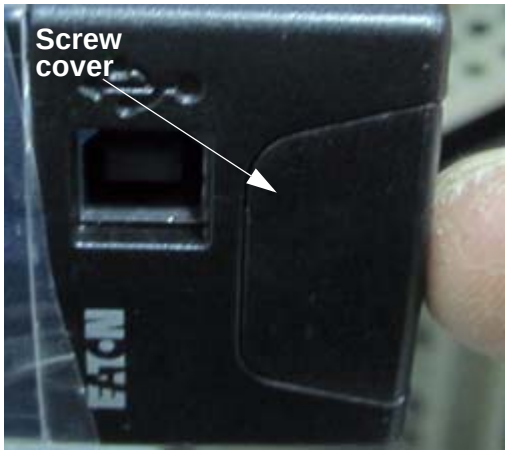


Figure 2 - Removing the Screw Cover

Figure 3 - Removing the Screw

2. Loosen the Phillips screw; the module will spring out as the screw loosens.
3. Once the screw is completely loosened, the module will slide out. Pull the module out gently to make sure the cables do not get tangled.

Figure 4 - Removing the Controller

4. Unplug the two plugs at the back and fully remove the controller.

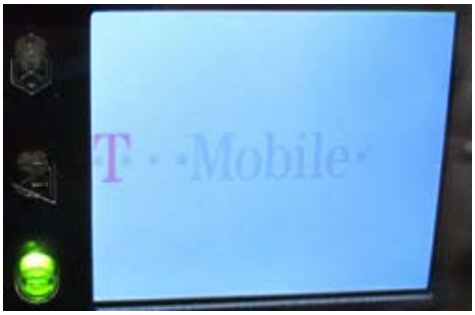
Figure 5 - Rear of Controller

5. Insert the new controller into the same space, tighten the screw, and replace the cover.
6. Re-connect the two plugs (XS31 and RXP/YS11). (See Figure 5.)

Figure 6 - Replacing the Screw Cover

7. Once you have plugged in the RXP cable, the LED screen will come on and begin to go through its warm-up. You will see a series of screens, including the ones shown in Figure 7.

   Do NOT connect the USB cable until the LED fully boots up. AFTER the LED screen shows the *Missing Hardware* message, use a USB cable to connect the controller to your laptop.



NOTE: The missing hardware screen is the indicator that the controller has finished booting and you can now connect the USB cable.

Figure 7 - LED Screens

When you insert a new controller into an existing system, you will need to identify the system's existing I/O boards to the new controller.

8. Once the screen appears that reads "Missing Hardware," go to your computer screen. The first window you should see is the System Summary.

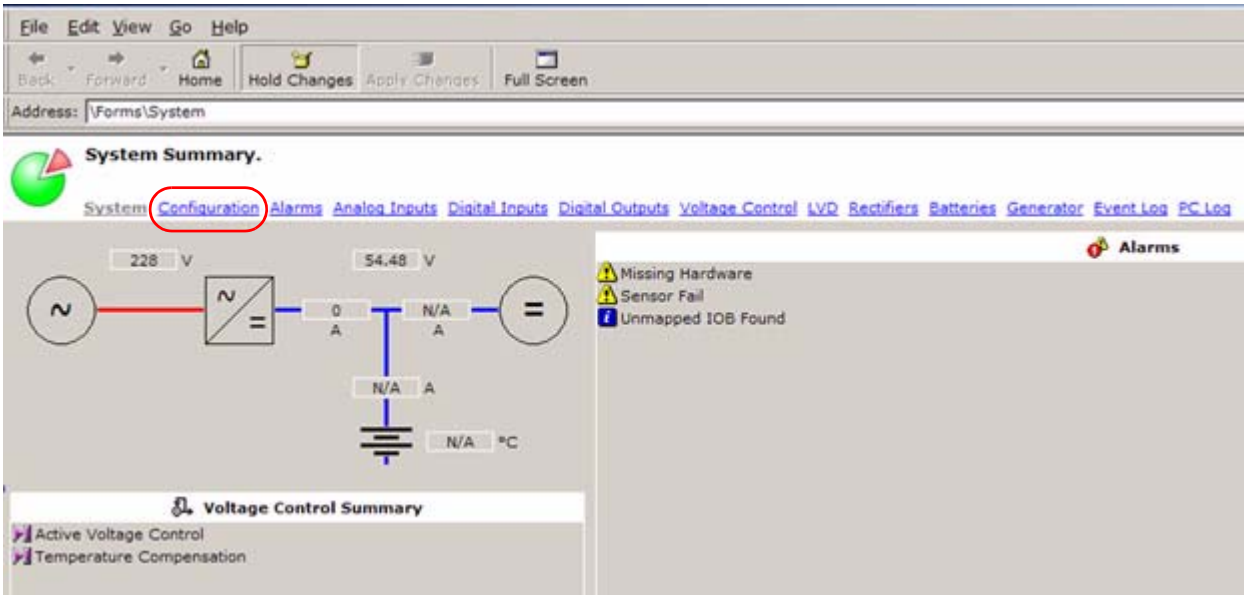


Figure 8 - System Summary

9. Select Configuration at the top (circled in Figure 8).
10. Select **RXP** on the Configuration Screen, shown in Figure 9.
11. At this point, you will need to enter the serial number of each board in the I/O Board to Serial Number Mapping List. First, however, using the *I/O Board Reference List* document associated with your system, physically locate your I/O boards in the RXP list and on your system.

    NOTE: If you have more than one of the same type of I/O board installed in your system and identified in the list, you MUST identify each board before entering the number in the mapping table.

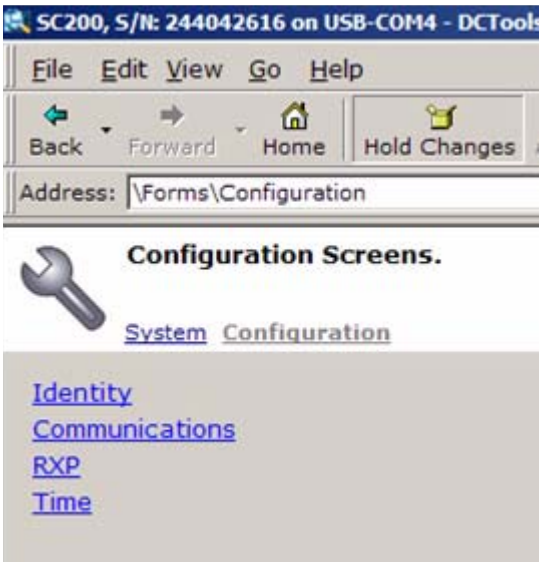


Figure 9 - Configuration Screen

12. To confirm the serial number of the boards,

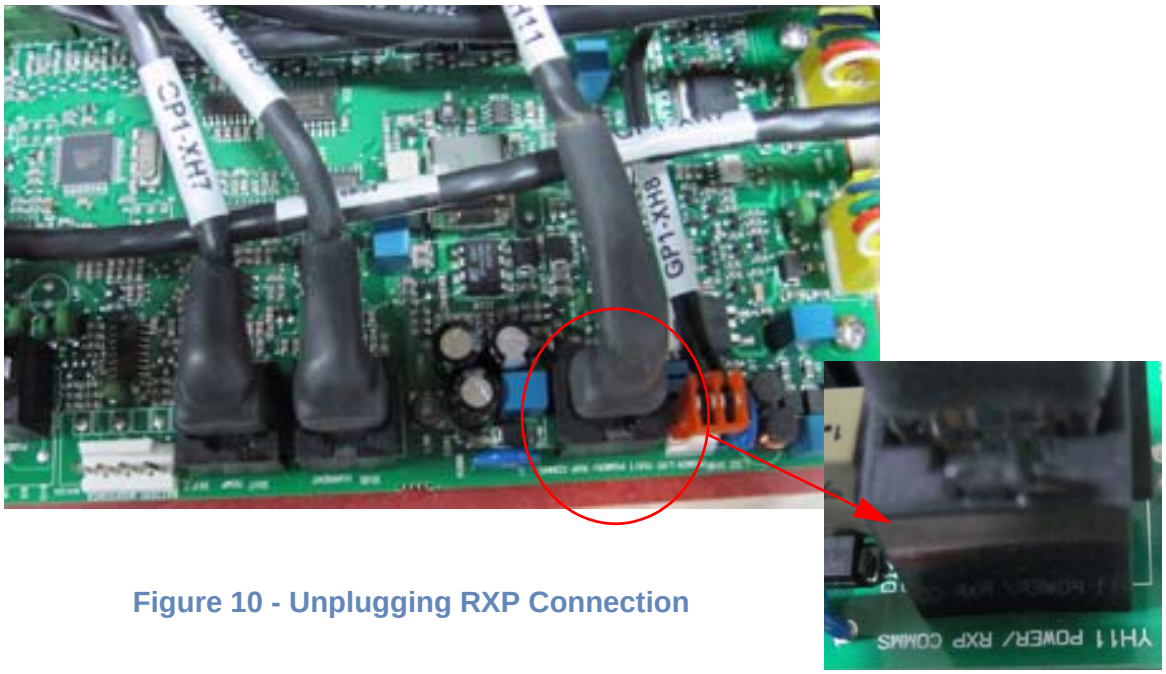


Figure 10 - Unplugging RXP Connection

a. Unplug the RXP connection (See Figure 10.) from a board.

b. Note in the table which board just went unregistered. (The Comms Lost state will appear, as shown in Figure 11.)

c. Double-click on the **0**, then type the serial number for the board that lost communication into the serial number field on the screen.

d. Plug the RXP connection back in and make sure the Comms Lost state clears.

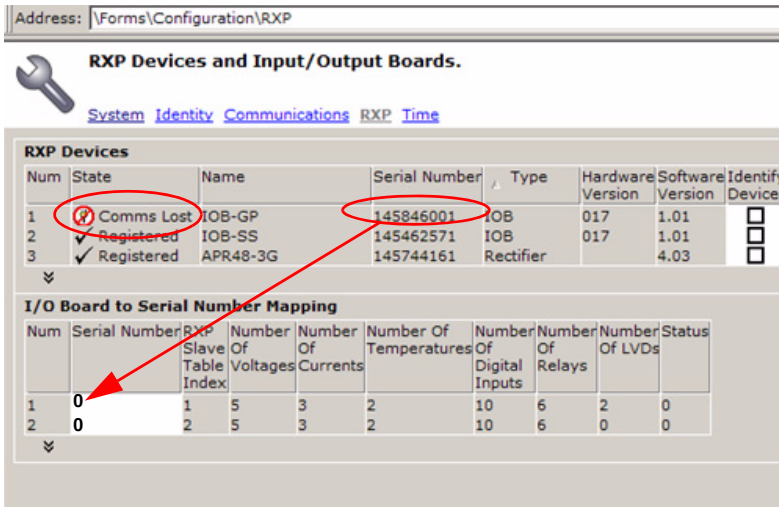


Figure 11 - Comms Lost Symbol

e. Repeat substeps a through d for all the boards until you have finished identifying all the boards in your system.

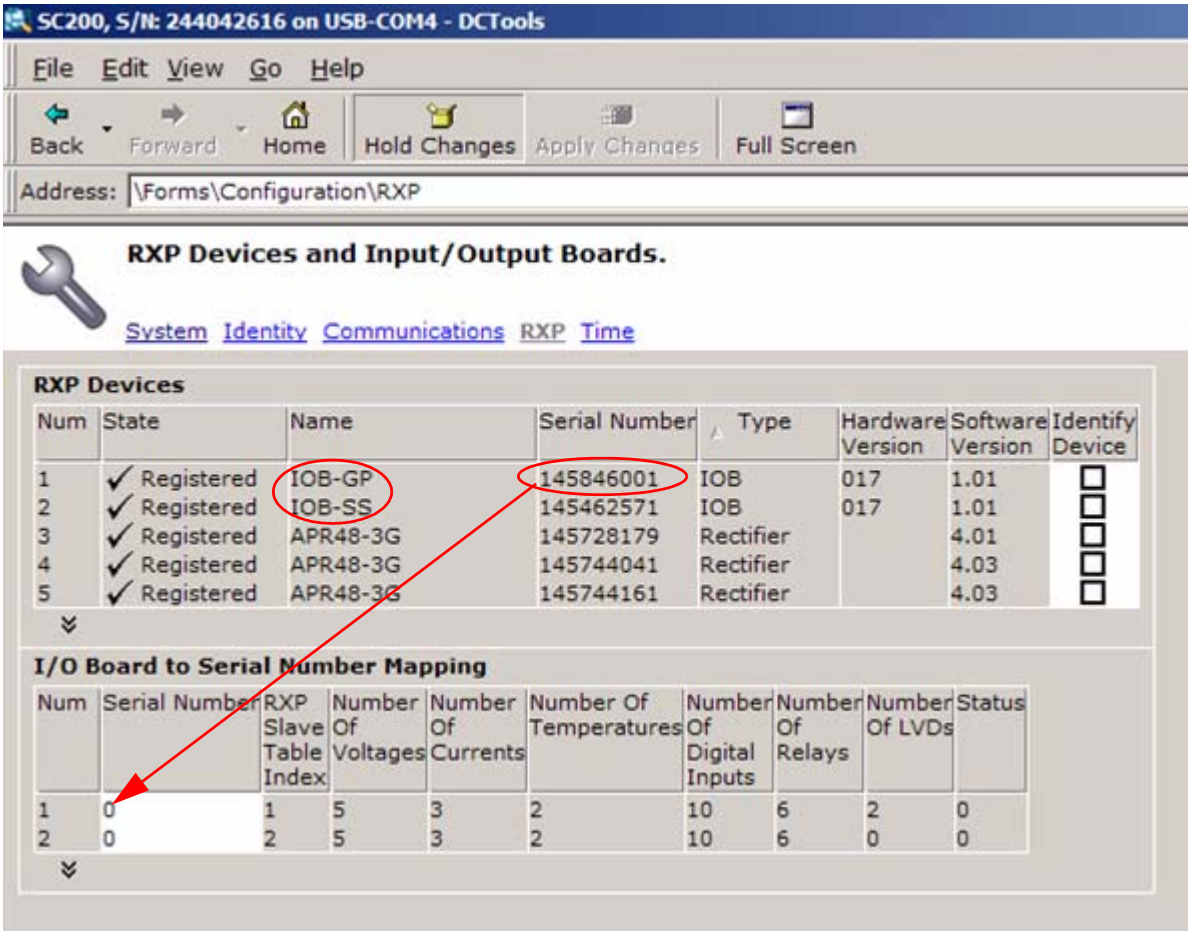


Figure 12 - RXP Devices and Input/Output Boards Screen

13. Click **Enter**.

14. Select **Apply Changes** in the file menu above.

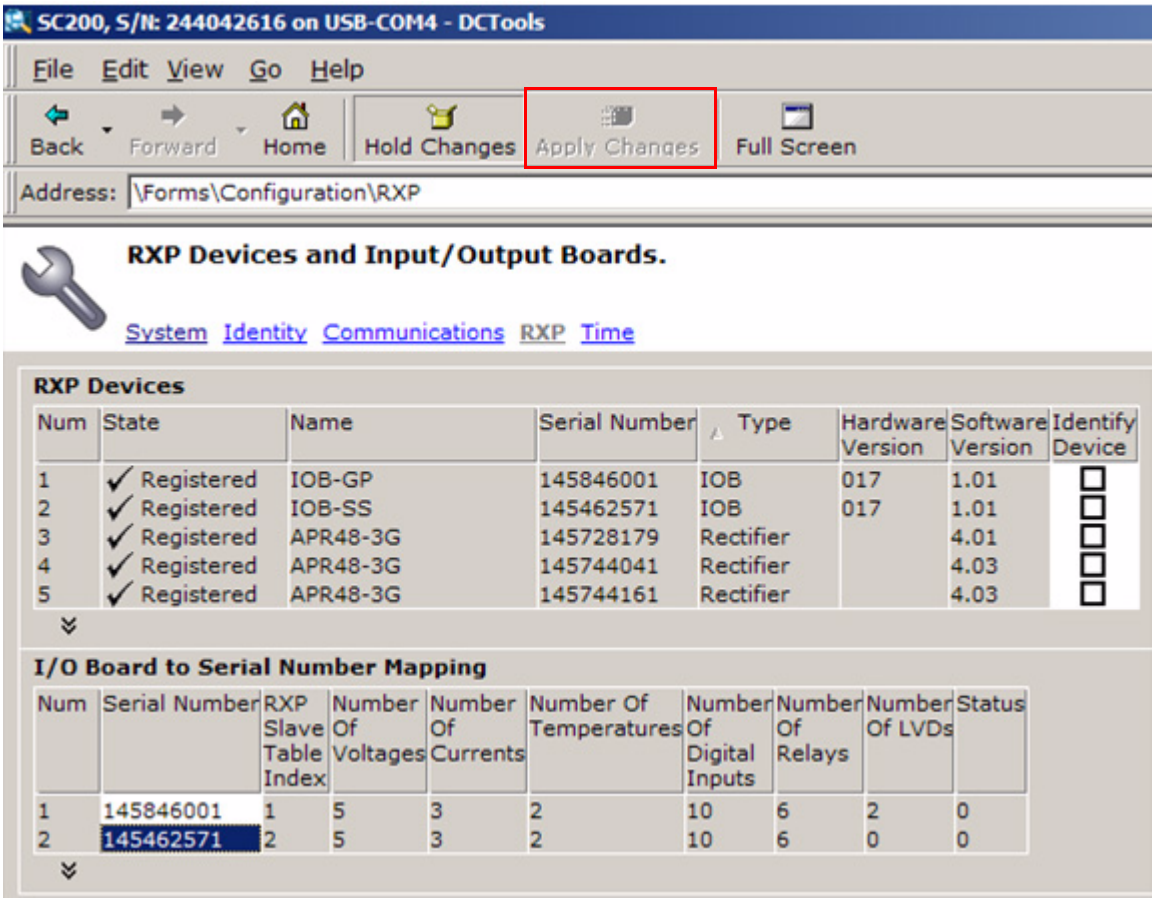


Figure 13 - Applying Changes

15. Return to the System Summary. (Figure 14)

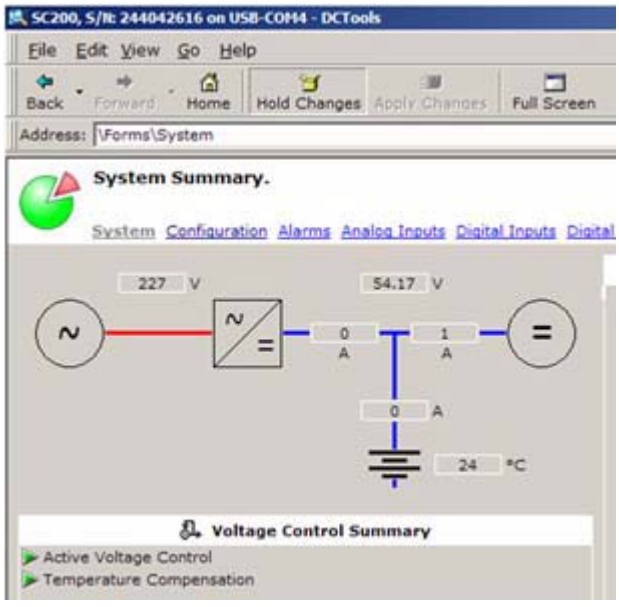


Figure 14 - System Summary

16. Go to the File Menu and select **ICE Backup/Restore** from the drop-down menu. A pop-up menu appears.
17. Click **Next**.

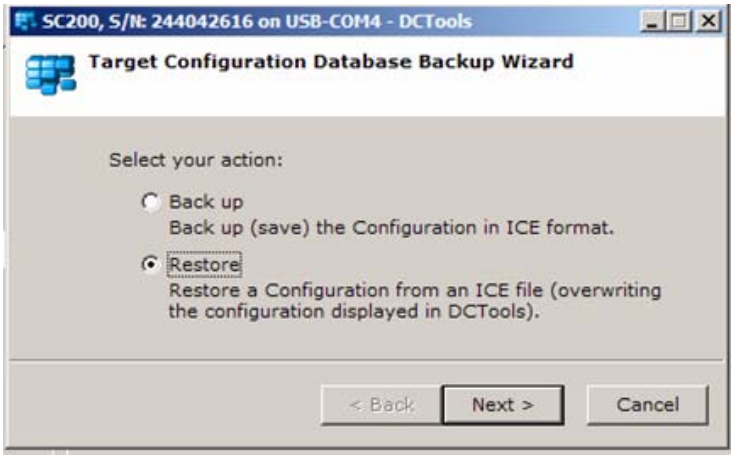


Figure 15 - Restore Button

18. Click **Restore**. The screen at Figure 16 appears.
19. Browse to the configuration file loaded on your computer.
20. Click **Next**.

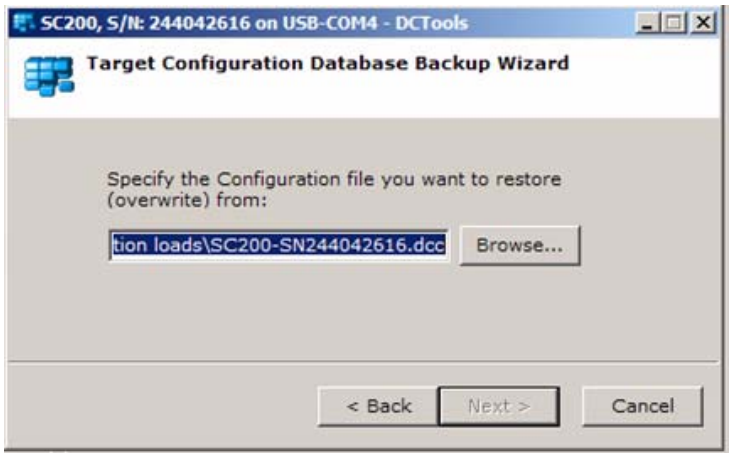


Figure 16 - Specifying the Configuration File

You will see a screen indicating that the file is loading.

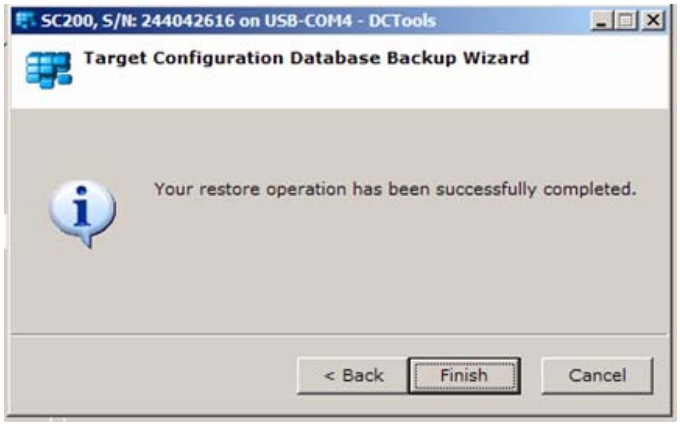


Figure 17 - Success Message

21. Click **Finish**. (Figure 17)

22. Read over the Summary Screen alarms section and fix the errors that show up.

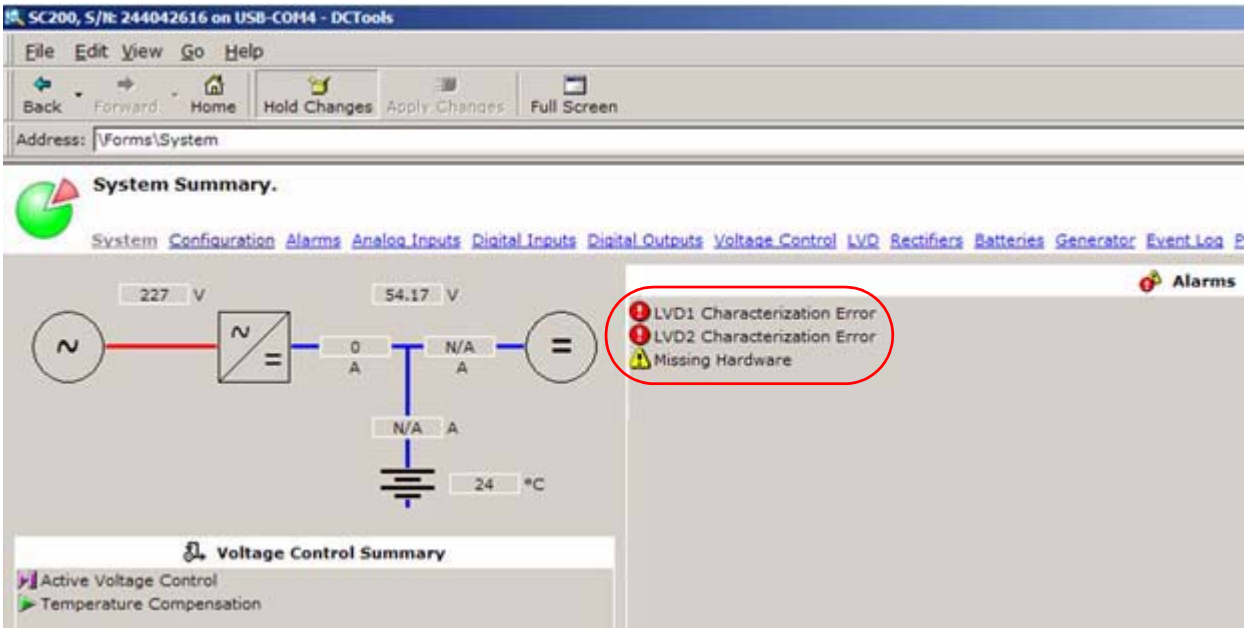


Figure 18 - Alarm Summary

23. Go to the LED screen on the Controller to characterize the LVDs.
24. Select the **Menu** button on the right side of the LED screen and click over to the Battery icon, using the arrows.
25. Click **Enter**.
26. Click on the right arrow one more time to go to the LVD screen.

Figure 19 - Battery Icon

27. Choose **LVD1**. (Figure 20)
28. Select **Details**. (Figure 20)
29. Choose **1-1 Not Characterized**.
30. Select **Edit**.

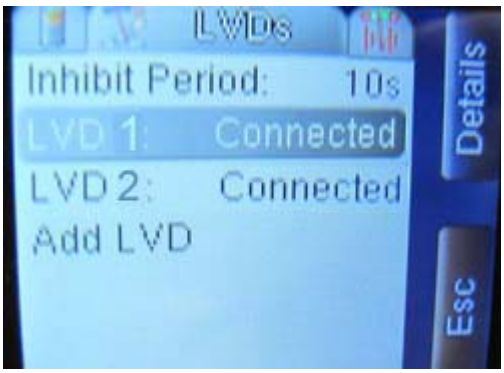


Figure 20 - Details Button

Figure 21 - LVDs Screen

31. Choose **Characterization**.
32. Select **Enter**.
33. Choose **Characterize Contactor**. (Figure 22)
34. Select **Enter**.
35. Select **Start**. A warning message comes up. (Figure 23)

Figure 22 - Characterization Screen

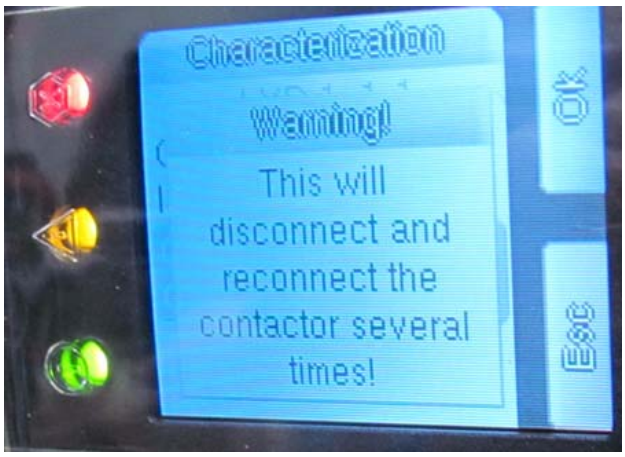


Figure 23 - Characterization Warning

36. Select **OK**. A progress screen appears. (Figure 24)

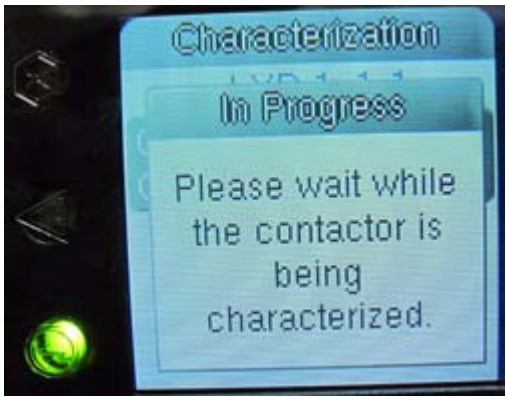


Figure 24 - Characterization in Progress Screen

37. You will hear a number of clicks, then a success screen should appear. Click **OK**. (Figure 25)
38. Click **Esc**.
39. Click **Esc** again.
40. Repeat steps 24 through 39 for LVD2.
41. Make sure all alarms are clear. You should see a screen like the one that appears in Figure 26. If you don't get an empty alarm screen, investigate the issues surrounding the particular alarm.

Figure 25 - Successful Characterization

42. If alarms are clear, the controller replacement procedure is complete.

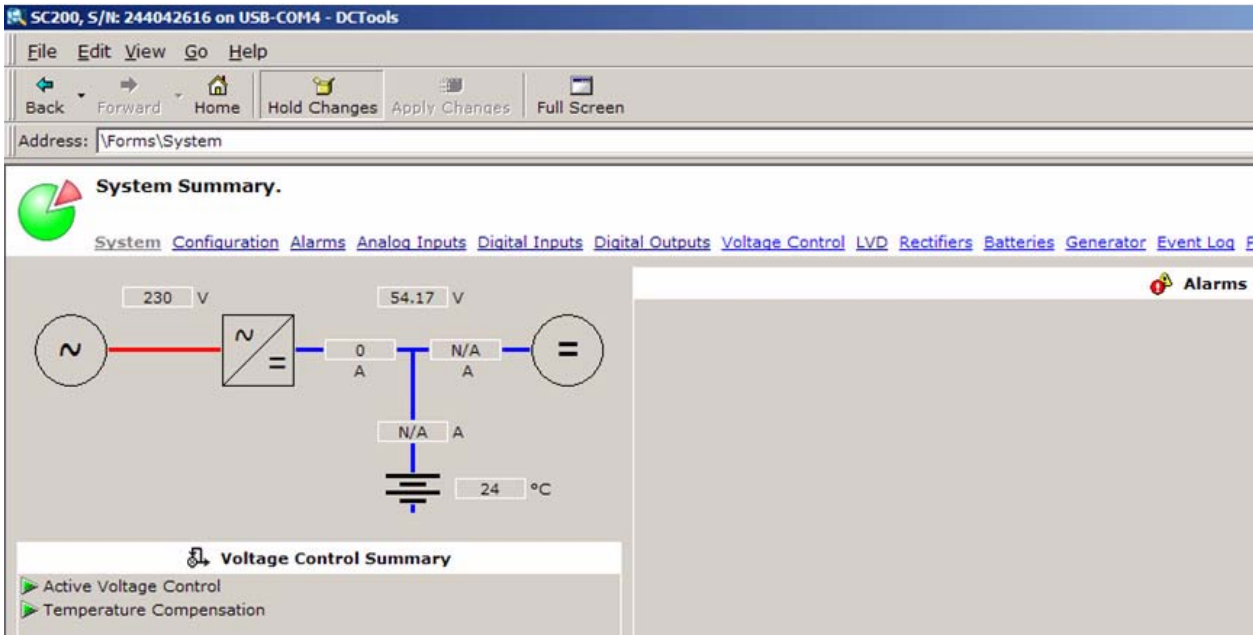


Figure 26 - Alarms Cleared