CTRL200-A201 Controller Installation Guide





CTRL200-A201 Controller Installation Guide Part Number 139704

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(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.)

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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.

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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 3 - Removing the Screw

- 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.

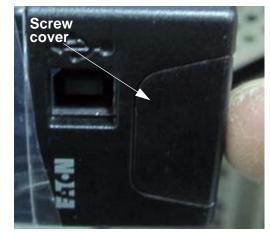


Figure 2 - Removing the Screw Cover



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.
- Re-connect the two plugs (XS31 and RXP/YS11). (See Figure 5.)
- 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.

Figure 6 - Replacing the Screw Cover



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

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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.

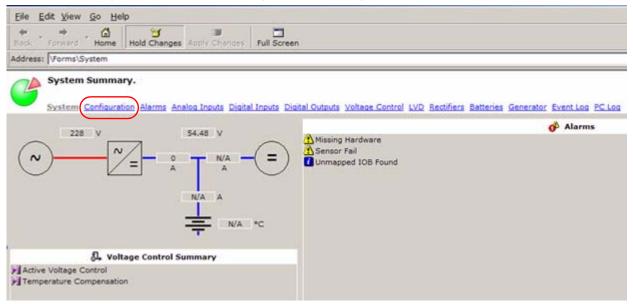


Figure 8 - System Summary

- 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.

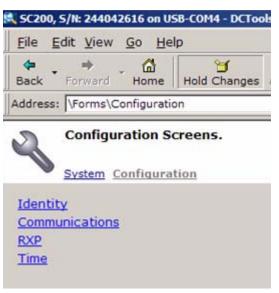


Figure 9 - Configuration Screen



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.

2	RXP Devic	ces a	nd Inpu	t/Outp	ut Boards.					
	System Ide	ntity g	Communi	cations	RXP Time					
RXP (Devices									
Num	State	Nar	ne		Serial Numbe	er , Typ			Software Version	Ider
1 2 3	Comms Lo	IOE	9-GP 9-SS 148-3G	>	145846001 145462571 145744161	IOB Rectific	0	17	1.01 1.01 4.03	
¥ 1/0 €	Board to Seria	l Nun	ber Map	oping						
Num	Serial Number	Slave	Of Voltages	Number Of Currents	Temperatures		Number Of Relays	Number Of LVDs		
1	0	1	5	3 3	2	10	6	2	0	
2	0	2	5	3	2	10	6	0	0	

KH11 BOMEBY BXP COMM

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.

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2	✓ Registered	IOE	-SS		145462571	IOB	0	17	1.01	
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	✓ Registered	APR	48-3G		145744041	Rectifie	er		4.03	
5	✓ Registered	APR	48-38		145744161	Rectifie	er		4.03	
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Figure 12 - RXP Devices and Input/Output Boards Screen

13. Click Enter.



14. Select Apply Changes in the file menu above.

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Figure 13 - Applying Changes

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

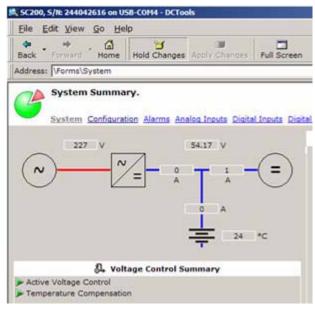


Figure 14 - System Summary



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



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

Figure 15 - Restore Button

Courte the Conferentian film on the sectors
Specify the Configuration file you want to restore (overwrite) from:
tion loads\SC200-SN244042616.dcc Browse

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

Figure 16 - Specifying the Configuration File



Figure 17 - Success Message

21. Click Finish. (Figure 17)

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

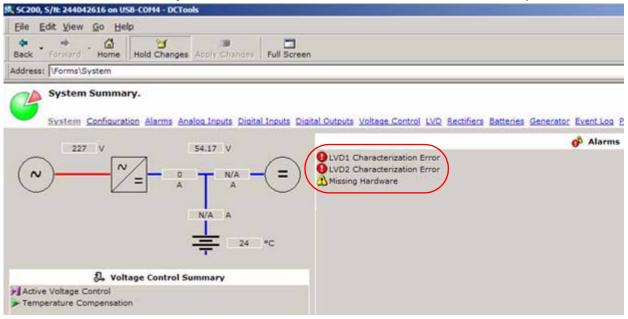


Figure 18 - Alarm Summary

- 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.



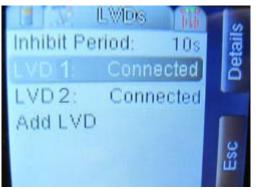


Figure 20 - Details Button

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)

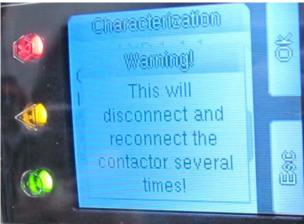


Figure 23 - Characterization Warning

Characterization LVD 1; 1-1 Characterize with IOB Values Characterize

Contactor

Figure 22 - Characterization Screen



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.

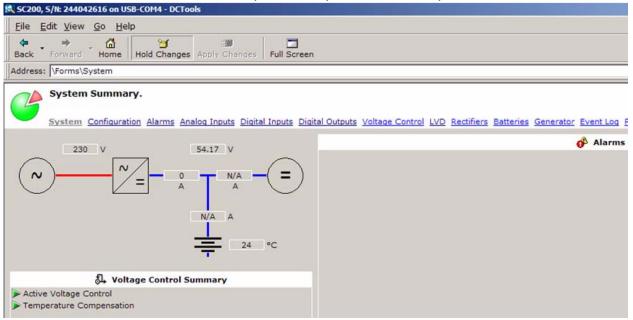


Figure 26 - Alarms Cleared

