

Programming the Direct Logic DL250-1 CPU

1. Place PLC DL250-1 CPU in “Term” mode, this is done by moving the 3 position switch on the front of the CPU.
2. Connect D2-DSCBL cable from CPU port1 to the Dell Inspiron 5000e laptop’s serial port.
3. Open “DS Launch 4”.
4. Open the program application from the menu list on the left. Example: If programming RF2’s klystron interlock CPU choose “RF2klystronPLC.prj”.
5. From the top menu, select the “PLC”.
6. From the drop-down select “connect”.
7. “Select” the link: 250(-1)kseq: K sequence, Address 1, COM2
8. From the “Online/Offline Differences” window, select “Use Disk”.
9. On the upper toolbar click on the “Mode” button, click on “Program”, then click on “OK”.
10. Note: “Read P” and “Write P” will now be enabled in the upper left corner of the toolbar.
11. Click on “Write P”. This action writes the program to the PLC.
12. On the top menu, click on “PLC”.
13. From the drop-down menu, select “Disconnect”, then select “YES” to disconnect from the PLC.
14. On the top menu bar, close the DirectSoft Programming.
15. Close “DS Launch”.
16. On the front panel of the PLC DL250-1 CPU, move the 3 position switch to “RUN”.
17. Disconnect laptop from PLC DL250-1 CPU.
18. Using the existing D2-DSCBL-1, connect port 1 of the CPU to EPICS.
19. Return laptop, carrying case and associated cables to building 401 room C3261.