SVX/SPX 9000 Variable Frequency Drive (VFD)

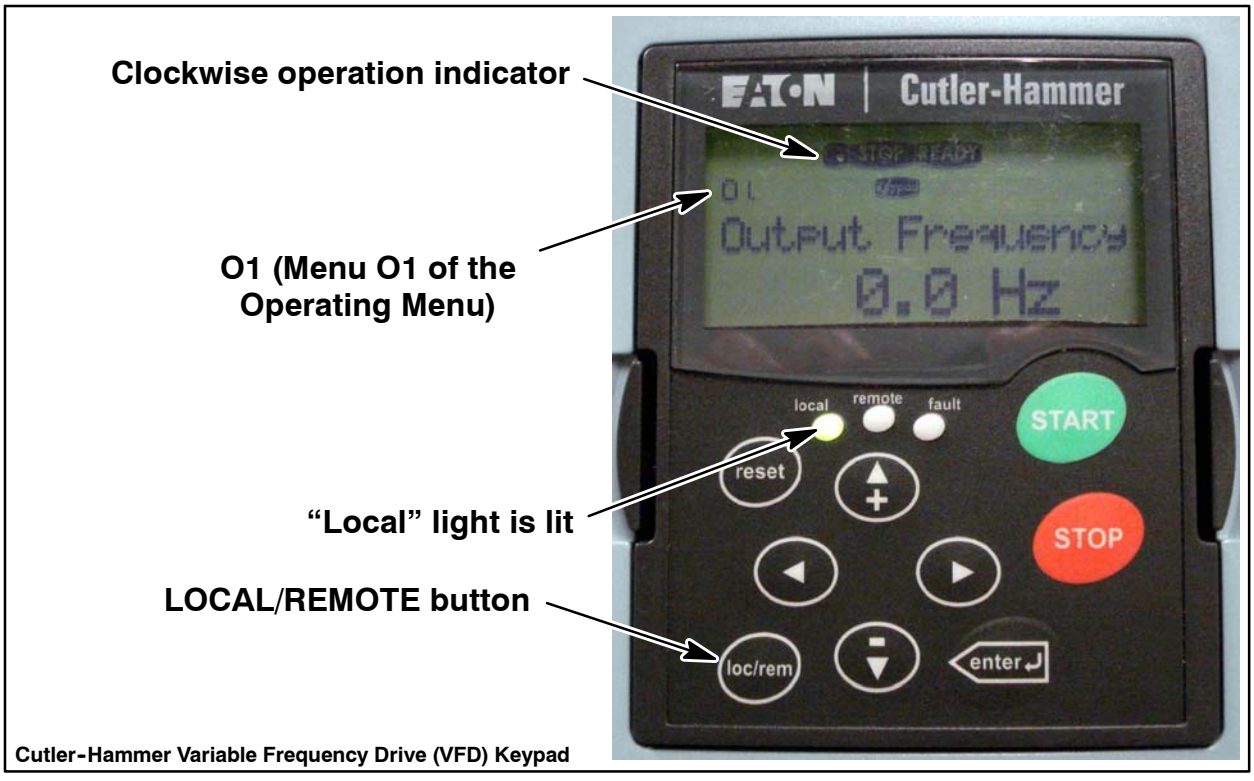
The Cutler-Hammer SVX/SPX 9000 Variable Frequency Drive (VFD) is used to control and operate a conveyor motor. The only difference between the SVX and the SPX is the firmware on the microprocessor; the SPX is used with Intellimerge conveyor and encoder applications. The following procedures explain how to use the keypad to set up the drive.

Setting Up Drive Parameters with the Control Panel (Keypad)

1. Turn power on to the drive if it is not already on. Power must be supplied to the drive in order for the keypad to operate.

2. Check that the display on the keypad displays information. If data is displayed, the connection is complete. If data is not visible on the display, check to make sure that the keypad is properly seated and secure.

3. Press the LOCAL/REMOTE button (**loc**/**rem**) on the keypad to change control from remote mode to local mode. The "local" light beneath the keypad display should now be lit.



Cutler-Hammer Variable Frequency Drive (VFD) Keypad

4. Press the Up ▲ or Down ▼ arrow to scroll the value and set the output frequency of the drive to 5 Hz. (Full speed is 60 Hz.)

5. Press the **START** button.

6. Check the direction of the motor.

7. Press the **STOP** button.

8. If the direction of the motor is correct, jump to Step 13.

9. If the direction of the motor is reversed, turn off the main disconnect on the control panel and switch any two motor leads on T1, T2, or T3.

10. Turn on the main disconnect.

11. Press the **START** button.

12. Verify that the direction of the motor is correct.

13. Press the LOCAL/REMOTE button (**loc**/**rem**) to return the drive to remote mode. The “remote” light Should now be lit.

Copying Parameters from Drive to Drive

Using the SVX/SPX keypad, it is easy to copy parameters from one drive to another. To copy parameters from drive to drive, perform the following steps:

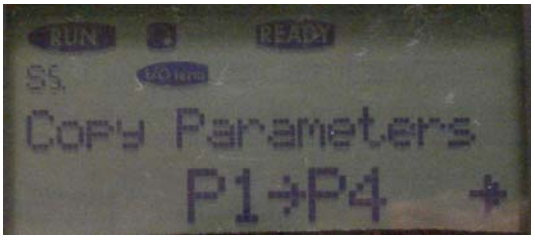
1. Turn on the drive that contains the parameters you want to copy from (Drive 1).

2. Press the Left arrow ◀ on the keypad until you get to the Mx menus (M1, M2, etc.).

3. Press the Up ▲ or Down ▼ arrow until you reach the **M5 System Menu**.

4. Press the Right arrow ▶ to get into the System Menu.

5. Press the Down arrow ▼ until you see **S5.3 Copy Parameters**.



6. Press the Right arrow ▶ to get into the Copy Parameters menu.

7. Press the Down arrow ▼ until you see parameter **S5.3.2 Upload to Keypad**.

8. Press the Right arrow ▶ to copy the parameters in the drive to the keypad.

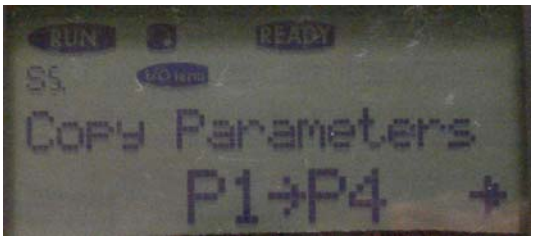
9. Disconnect the keypad (Keypad 1) from Drive 1 and connect it to the drive you wish to copy the parameters to (Drive 2).

10. Press the Left arrow ◀ until you get to the Mx menus (M1, M2, etc.).

11. Press the Up ▲ or Down ▼ arrow until you reach the **M5 System Menu**.

12. Press the Right arrow ▶ to get into the System Menu.

13. Press the Down arrow ▼ until you see **S5.3 Copy Parameters**.

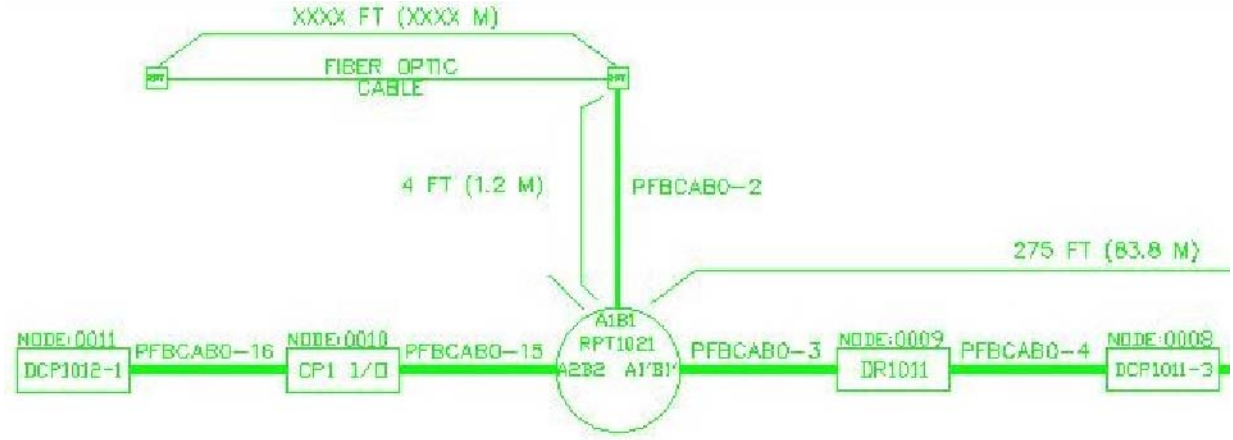


14. Press the Right arrow ▶ to get into the Copy Parameters menu.

15. Press the Down arrow ▼ until you see parameter **S5.3.3 Download from Keypad**.

16. Press the Right arrow ▶ to copy the parameters from the keypad to the drive.

17. Set the communication parameters (node address, baud rate, PPO type, etc.) on Drive 2. Make sure to change the node address per the network schematic from the address that was copied from Drive 1.



18. Turn off the drive.

19. Remove the keypad you just downloaded from (Keypad 1), and replace it with the keypad that belongs with Drive 2 (Keypad 2).

20. Repeat steps 1–8 to upload the new parameters in Drive 2 to Keypad 2. This insures that the parameters match and no parameters will be written over by mistake.