

**Programming the EWN-Y pump for the PosiFlow™ & FCM Suction Flow Checker.**

The EWN-Y pumps are programmed to take the input from the PosiFlow™ or FCM suction-side flow verification devices and verify there is feedback of flow vs. pump actuation. Loss of feedback will result in an output alarm. By default, the flow verification mode is disabled (set to “OFF”).

1. Make sure the pump is in the WAIT condition. You can do this by pressing the START/STOP key until the pump starts pumping, then pressing it one more time.
2. Press and hold the EXT key for 3-4 seconds. “OUT” should appear on the display.
3. Use the UP/DOWN arrow keys to scroll until “F.CHK” is shown in the display.
4. Press the EXT key and “MODE” will be displayed.
5. Press the EXT key again and “OFF” should be in the display (or “A/b/C/D.MODE” if previously changed).
6. Use the UP/DOWN arrow keys to select the mode desired. Basically, the modes vary the timing of stopping the pump and turning the output alarm relay on. For more accurate description of the conditions and timing of the four modes, see pages 31-34 in the manual.
7. Press the EXT key to save and “MODE” will be displayed again.
8. If goal was to turn the F.CHK menu to “OFF”, now press the STOP/START key twice to get back to the WAIT condition.
9. With “MODE” in display, use the UP/DOWN arrow keys to cycle through program menus. The options available are based on the Mode selected. (See pages 90-91 in the manual for detail)

A/b/C Modes:

- a. “FC.MUM” sets the number of pump strokes with no feedback signal before the pump begins to take action. Press the EXT key to see “C 1” and use the UP/DOWN keys to program the allowable number of missed strokes. Range is 1 – 60 strokes.
- b. Press the EXT again to get back to “FC.MUM” in the display. Press DOWN key to get to next menu.

Cont’d for b/C Modes:

- c. “FC.POF” sets the number of pump strokes with no feedback signal (after the strokes set in FC.MUM) before the pump shuts off and “FLOW” flashes in the display.

D Mode:

- a. “FC.TIM” sets the time allowed with no feedback for the pump to take action. Press the EXT key to see “T01.” Use the UP/Down keys to change between 1 and 60 minutes.
- b. Press the EXT key to get back to “FC.TIM” Press the DOWN key to get to the next menu.
- c. “FC.PRM” sets a fixed time for the pump to operate at full speed, trying to re-prime itself. Press the EXT to see “T01.” in the display. Use the UP/Down keys to change between 1 and 60 minutes.
- d. Press the EXT key to get back to “FC.PRM” Press the DOWN key to get to the next menu.



- e. "FC.RTN" sets the time the pump needs to see feedback signals during the full speed priming attempt. Press EXT to see "T .01" in the display. UP/DOWN keys will change between 1 and 59 seconds, or if DISP is pressed, the display will change to "T01. " and between 1 and 59 minutes can be set. HOWEVER, time in FC.RTN has to be less than the priming time set in FC.PRM.
 - f. Press the EXT key to get back to "FC.RTN"
10. Press the START/STOP key twice to return to the WAIT condition.
 11. The flow verification menu is now set, so once the pump is put into either MAN mode or EXT operation, feedback will be expected and required to avoid alarm and error conditions.
 12. Once the pump reaches maximum conditions without and signal feedback and the "FLOW" error is flashing on the screen, the STOP/START key has to be pressed to reset, or the pump requires a power cycle.

NOTES:

1. In the EWN-Y pump, if the display is dark, the first press of any key will only turn on the display backlight and this first keypress will not register as the function of the key.
2. If power is cycled with the flow verification menu on, all counts of missed pulses, etc. will be cleared and start over again.