

PLC Software Upgrade:

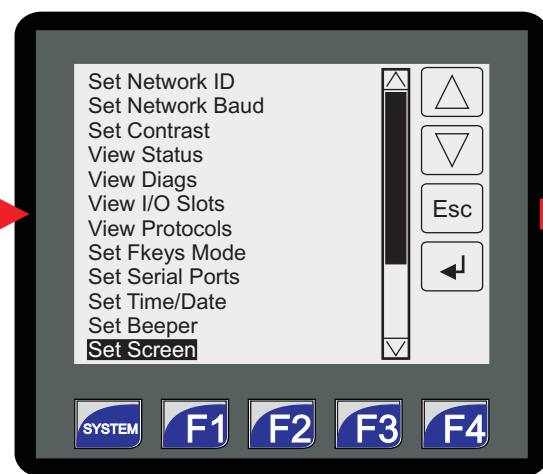
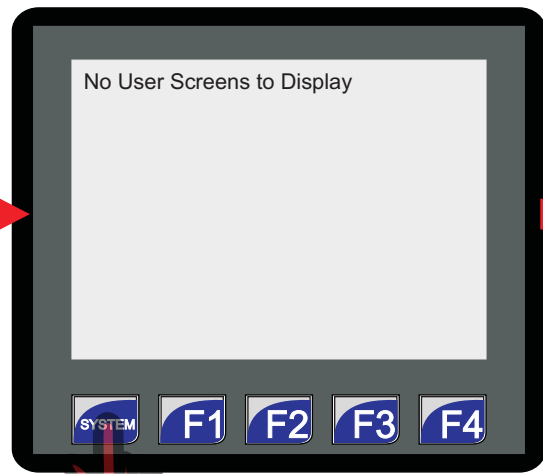
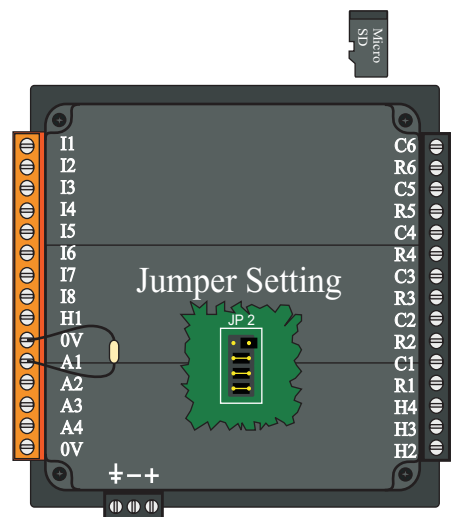
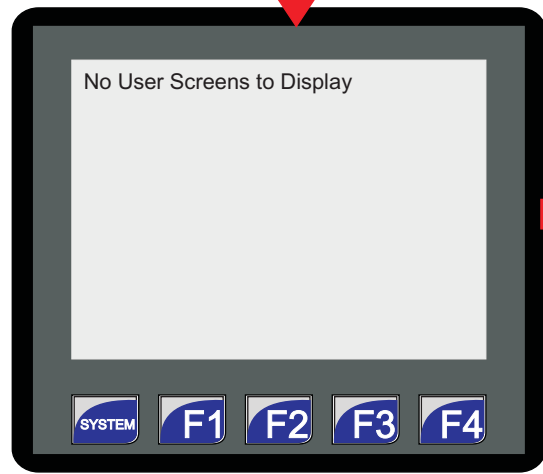
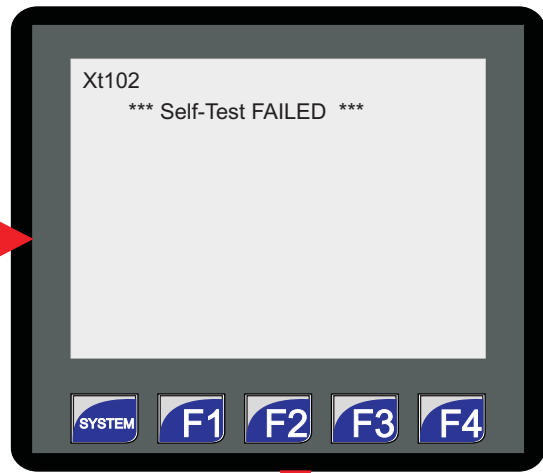
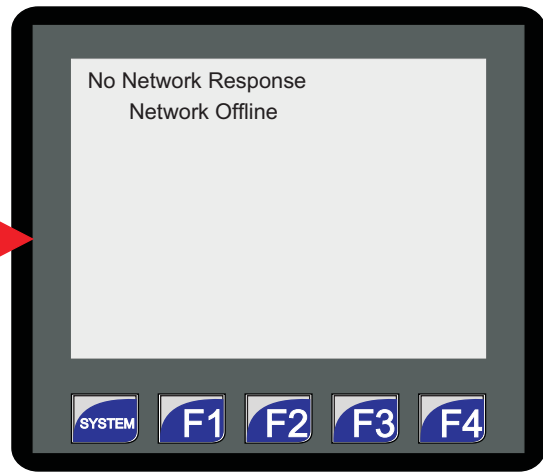
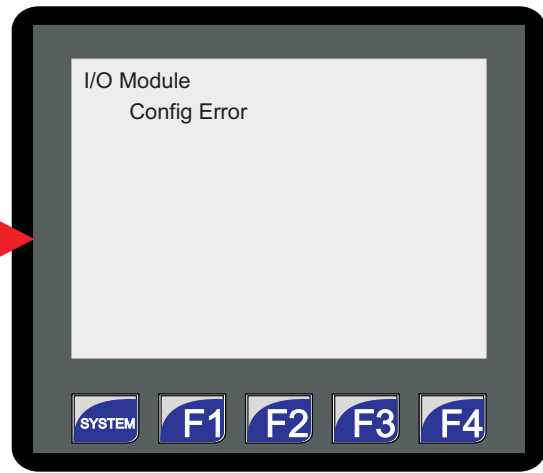
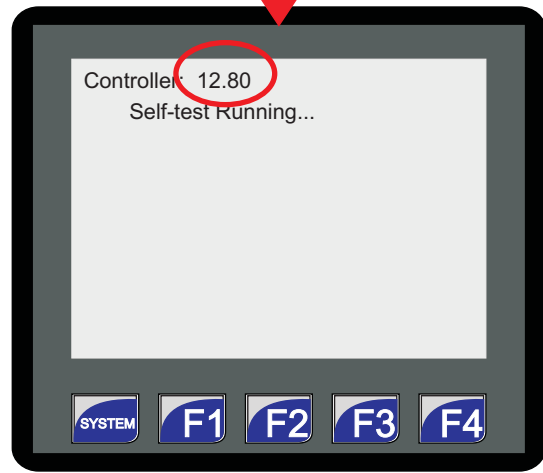
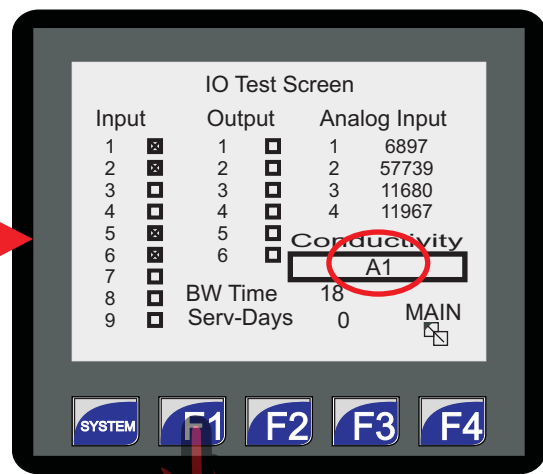
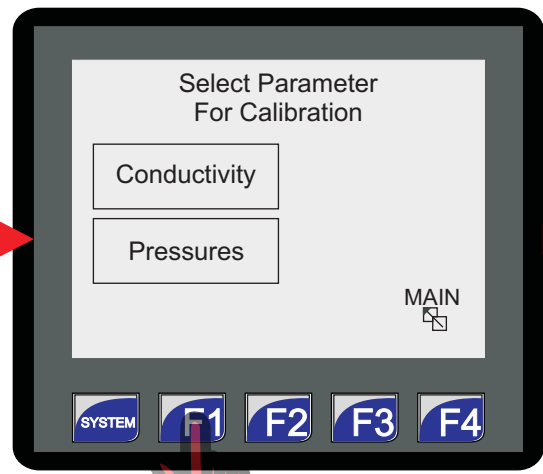
1. From the Main VRTX PLC Screen
 - A. PRESS F2 (CAL F2)
 - B. Press and hold F1 until the IO Test Screen comes up
 - i. Note the setting under CONDUCTIVITY A1 or A2
 - C. Press and hold F1 until the ID Screen comes up.
 - i. Note the following settings:
 1. ID
 2. BI 0000 (SET POINT)
 3. Db 000 (DEAD BAND)
 4. VRTX 00
 5. Filter 00/00
 6. BW (BACK WASH)
 7. Aut1
 - A. R 000 (RINSE)
 - B. D 0000 (DELAY)
 - C. A 000 (AUTO)
 8. Aut2
 - A. T 000 (TRIP)
 9. Sep
 - A. O 000 (OPEN)
 - B. C 000 (CLOSED)
2. Press F4 Main
3. Cycle the Main Power OFF and On
 - A. Note the CONTROLLER information (12.??) This will be the first screen you see.
4. Press and hold SYSTEM and F4 until the unit resets. You will hear 1 beep continue to hold for 15 seconds then you will hear a second beep. The screen will read SYSTEM FIRMWARE LOADER
5. Cycle the Main Power OFF and On
6. Insert the Micro SD Card into the back of the PLC
7. Press SYSTEM
8. Scroll down to SET SCREEN. ENTER
9. Scroll down to UPDATE TIME(mS): ENTER
10. Enter the value 50. ENTER then ESC
11. Scroll down to REMOVABLE MEDIA. ENTER
12. Scroll down to 69 12?? .PGM. ENTER The ?? equals the 12.?? Found in line #3. You will use the closest matching Firmware version without going over.
 - A. Example:
 - i. You can use 69 1270.PGM on a Firmware 12.90
 - ii. You cannot use 69 1270 on Firmware 12.50
13. LOAD APPLICATION Press OK
14. LOAD PROGRAM COMPLETE
 - A. PLACE IN RUN MODE Press OK
15. Press F1 SET UP
 - A. Enter Code 8789 ENTER
 - B. Press F3 ENTER

16. Enter code 5850 ENTER
 - A. Press F3 ENTER
17. Press NEXT
18. Press SYSTEM CONFIG
19. Press VRTX CONFIG
 - A. By touching SHOW PRESS it will turn this function on or off
 - B. If the VRTX Unit has a Transducer for recording pressure make sure the SHOW PRESS box has an X showing.
20. Press BACK
21. Press FILTER CONFIG
22. Press GO TO FILTER SET UP
23. Press CONFIGURE FILTER
24. Press AUTO SCREEN SETTINGS
 - A. Enter the values you noted in section (1), (C), (i), (7)
 - i. R 000 (RINSE)
 - ii. D 0000 (DELAY)
 - iii. A 000 (AUTO)
25. Press TRIP
 - A. Sensor Type should be set to TRANSMITTER
 - B. TRIP PRESSURE Enter the values you noted in section (1), (C), (i), (8)
 - i. T 000 (TRIP)
26. Press BACK
27. Press SEPARATOR SETTINGS
 - A. Enter the values you noted in section (1), (C), (i), (9)
 - i. O 000 (OPEN) = SEP PURGE – ON Time (sec)
 - ii. C 000 (CLOSED) = Separator OFF Time (HR)
28. Press SAFETY VALVE
 - A. SAFETY VALVE = OFF unless this is a COSTCO Facility
29. Press BACK
30. Press BACK
31. Press BACK
32. Press BACK
33. Press OTHER
34. Press ALARMS LIMITS
 - A. Set BLEED DEAD BAND to the value you noted in section (1), (C), (i), (3)
 - i. Db 000 (DEAD BAND)
35. Press DONE
36. Press F4 MAIN
37. Press F3 BLEED
 - A. Set the BLEED SET POINT to the value you noted in section (1), (C), (i), (2)
 - i. B1 0000 (SET POINT)
38. Press F4 MAIN

You have completed the software upgrade of the PLC. You will now need to calibrate the all transducers and conductivity probe. The detailed procedures can be found in the CALIBRATION PROCEDURES sheet.

1. Pressures: A 2-point calibration will be necessary.
 - A. VRTX PUMP
 - i. ZERO CAL with the pump(s) OFF
 - ii. HIGH CAL with the pump(s) ON
 - B. FILTER PUMP
 - i. ZERO CAL with the pump(s) OFF
 - ii. HIGH CAL with the pump(s) ON
 - C. FILTER OUTLET
 - i. ZERO CAL with the pump(s) OFF
 - ii. HIGH CAL with the pump(s) ON
2. Conductivity: A 2-point calibration will be necessary.
 - A. AIR CAL: with the probe removed from the rack in open air
 - B. HI CAL: With the probe in stream. Set to the Sump water tested value.

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Removable Media
Fail-Safe System
Clone Unit



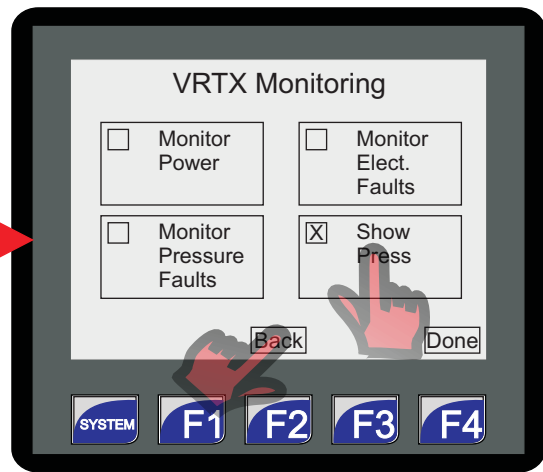
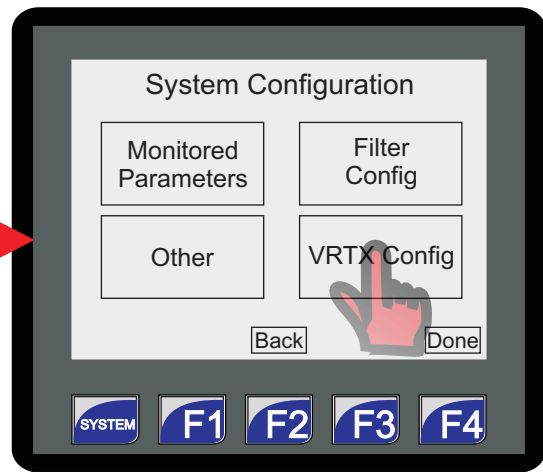
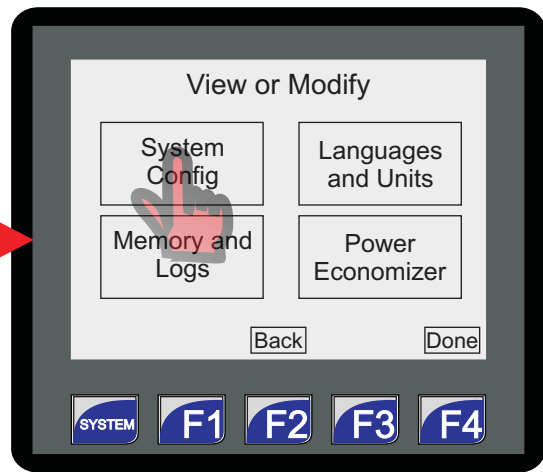
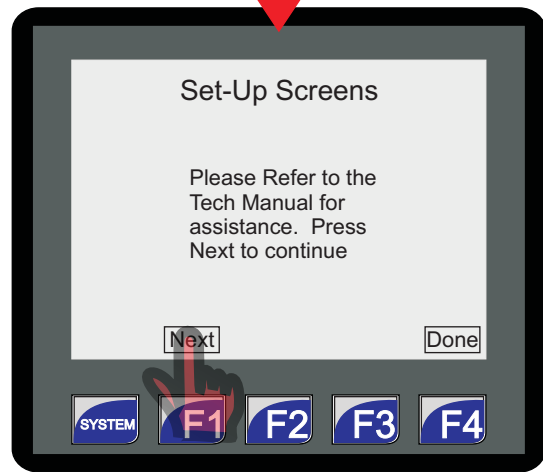
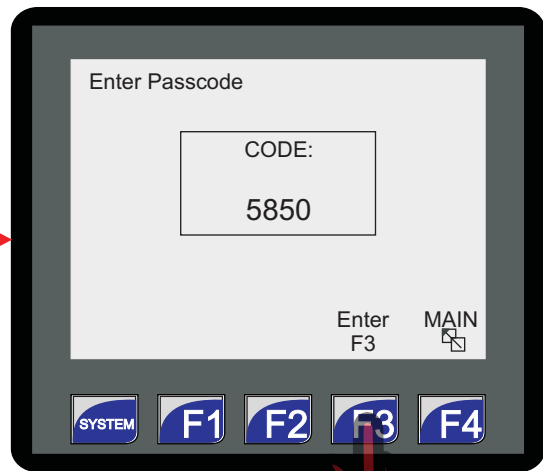
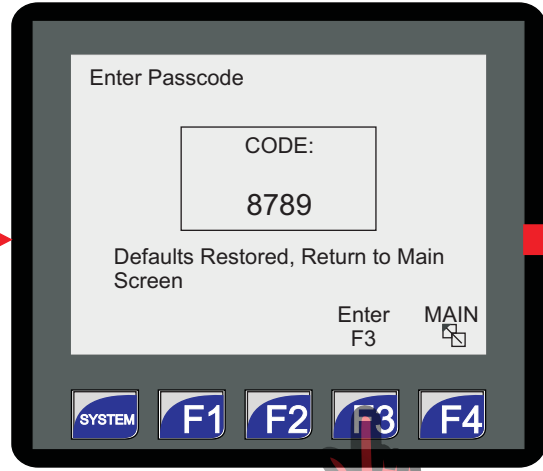
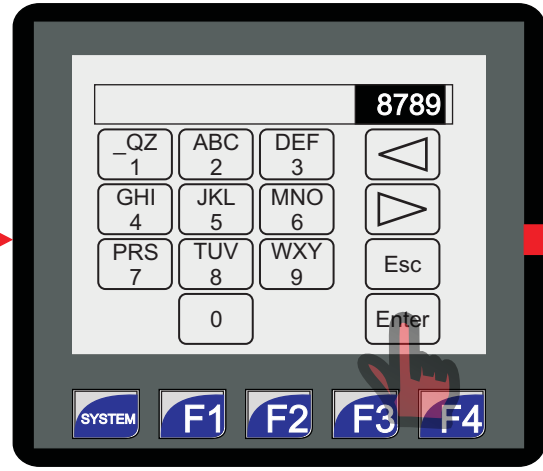
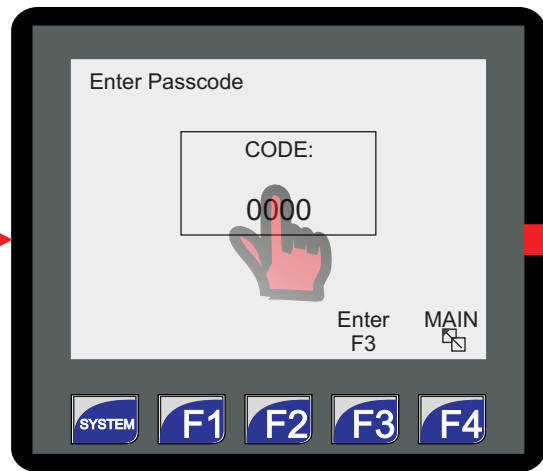
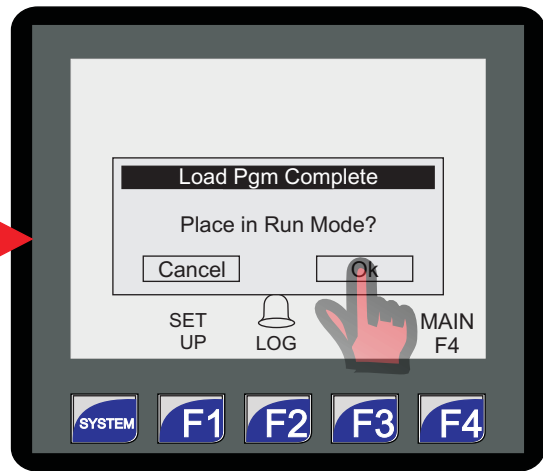
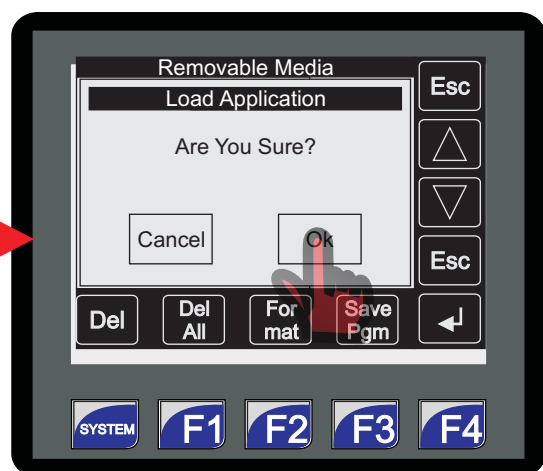
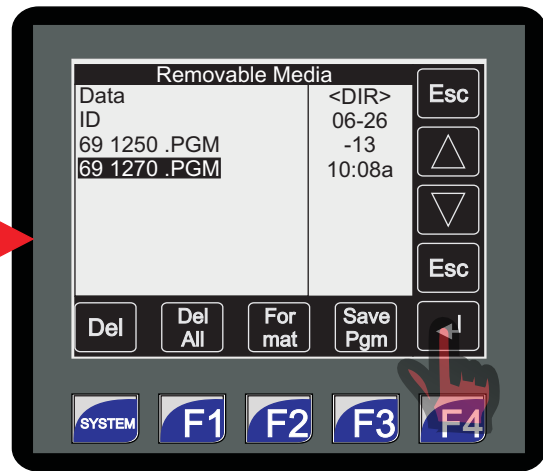
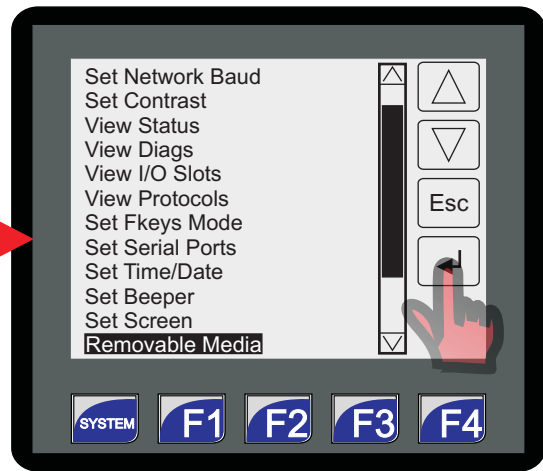
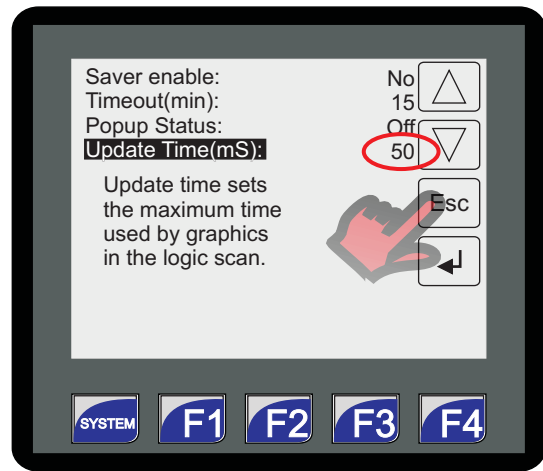
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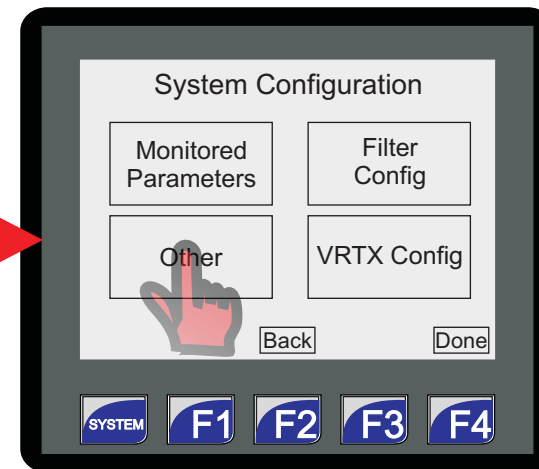
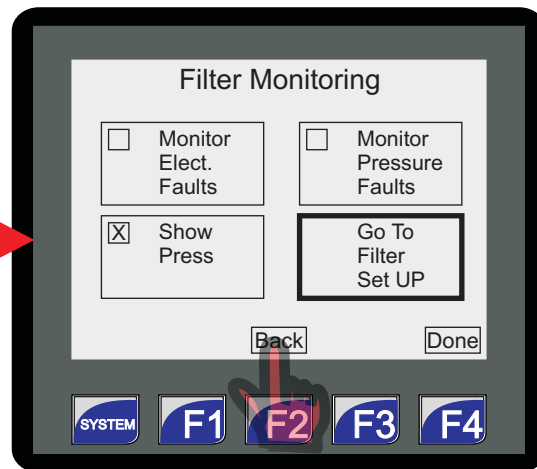
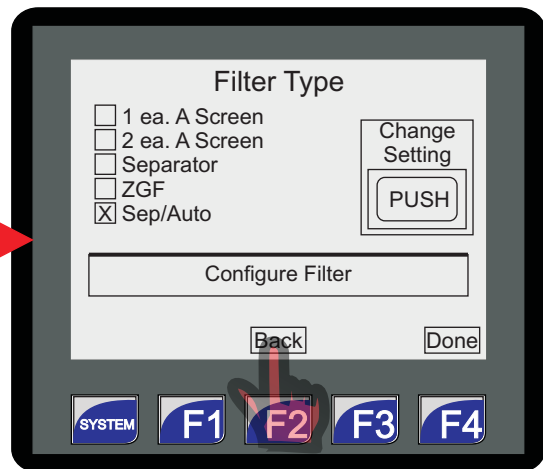
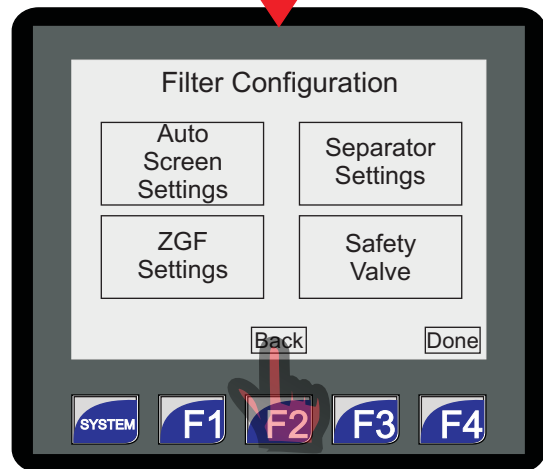
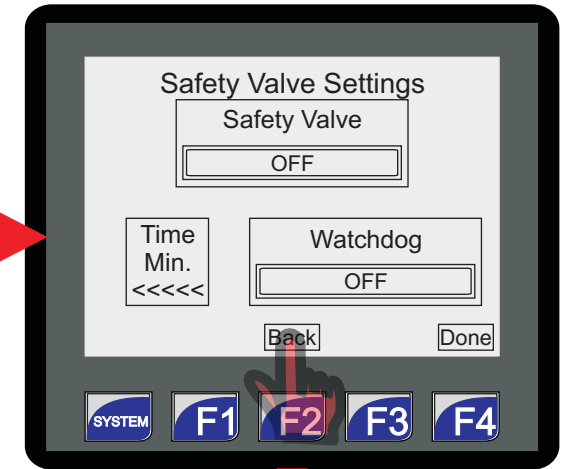
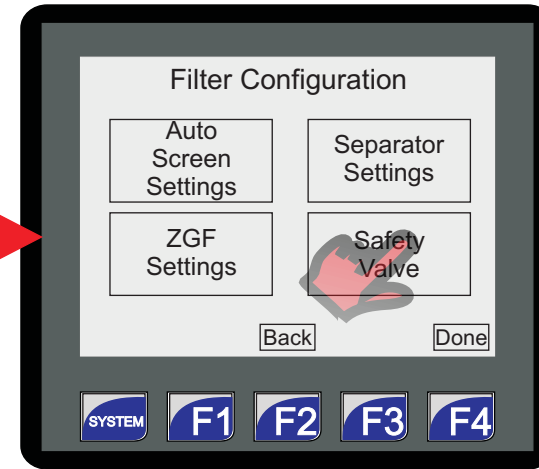
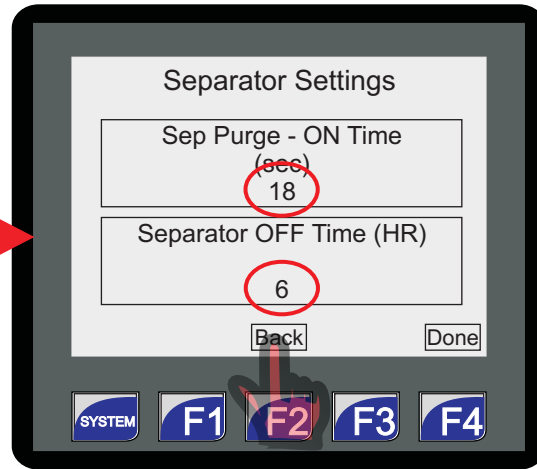
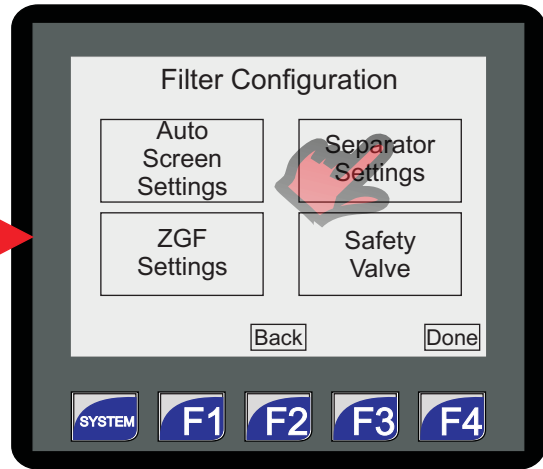
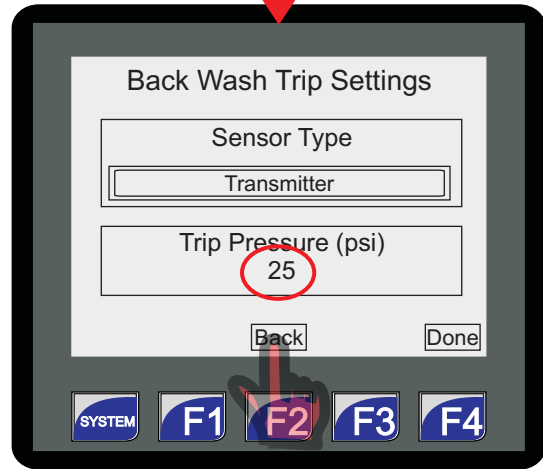
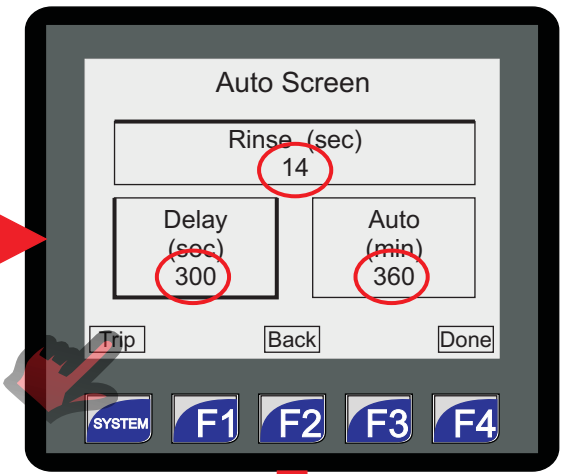
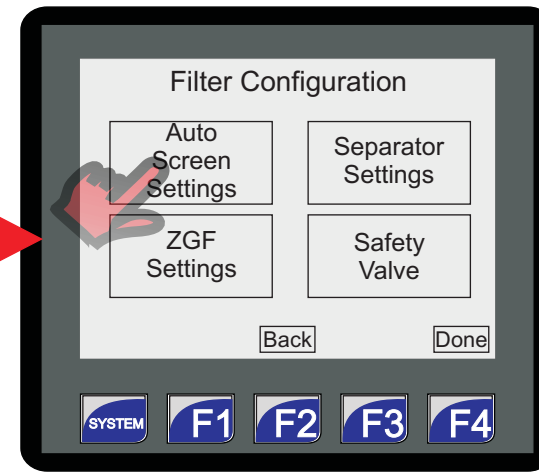
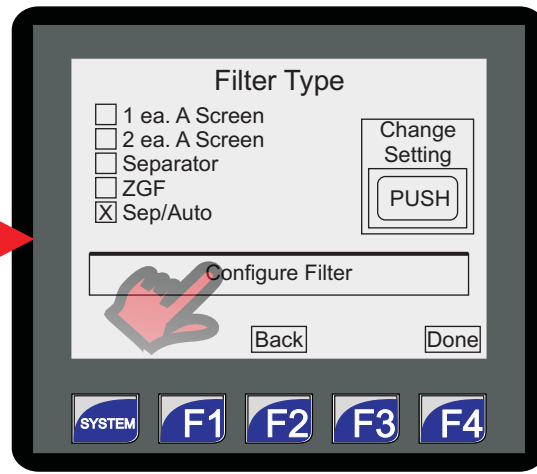
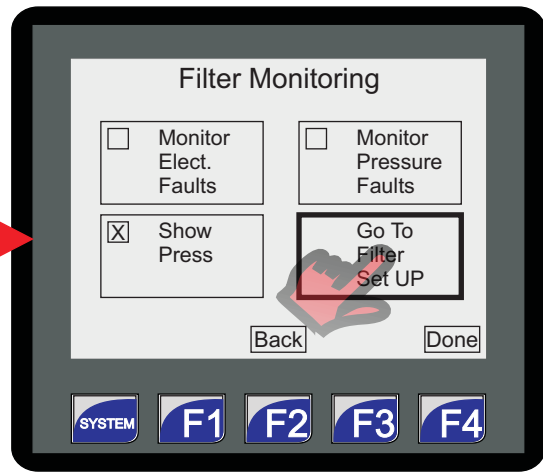
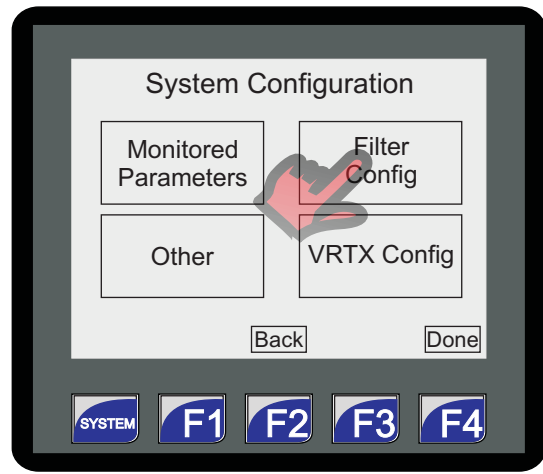


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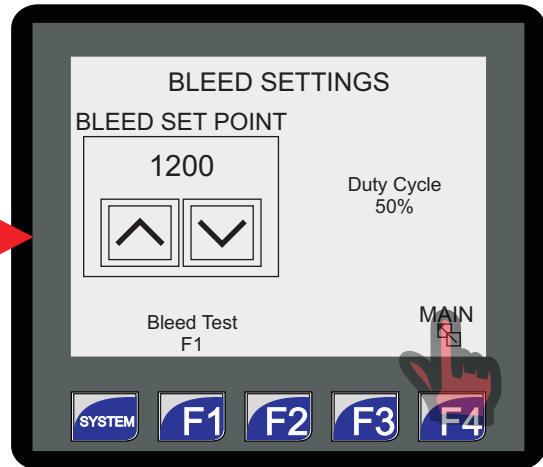
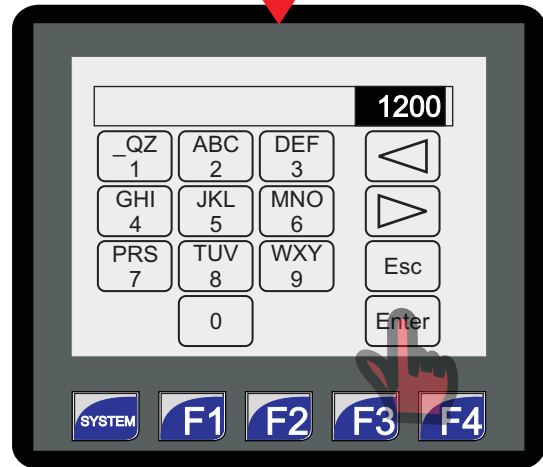
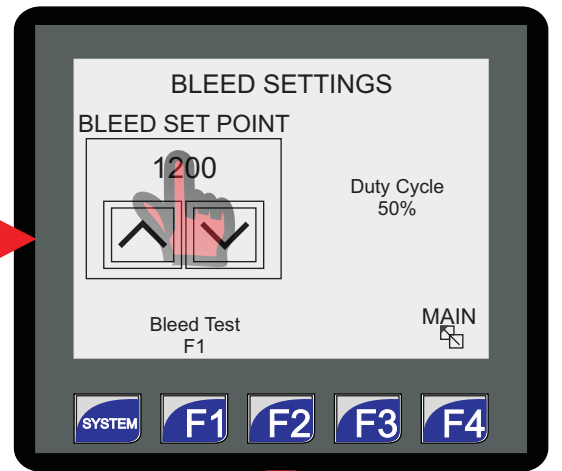
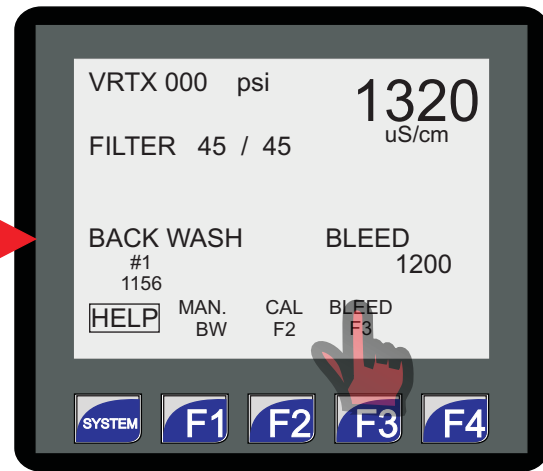
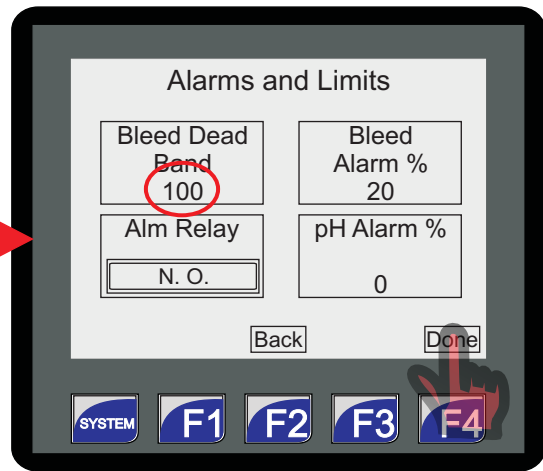
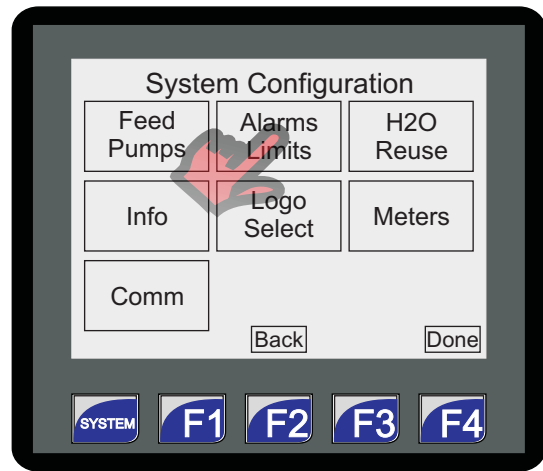
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