

RE-INITIALIZATION PROCEDURE FOR GEN2 SYSTEMS

This procedure will re-initialize the instrument to its factory settings. This should be done if a system lockup occurs. You must have the system configuration data that was shipped with the system or obtain another copy from ENVIRONICS before starting this procedure.

WARNING: All user data will be erased (such as MAINTAIN PORTS settings, stored FLOW/CONC set-ups and stored SEQUENCER set-ups). Be sure to record any relevant information before proceeding.

1. Turn the system off.
 2. Remove the top cover to the system.
 3. Remove both batteries (yellow) located on the board closest to the front of the system.
 4. Wait approximately 10 seconds, then replace the batteries, making sure to observe the correct polarity.
 5. Turn the system back on. After several seconds, the front panel should display a message indicating the loss of battery back-up power. If not, go back to step 1 or call ENVIRONICS for assistance.
 6. Press any key, as prompted by the display panel. The system should proceed to the READY mode. If it does not, call ENVIRONICS for assistance.
 7. Press the following keys to enter the service mode:
<9>, <UP ARROW>, <DOWN ARROW>,
<F7> (2nd key from the right, in the bottom row of keys)
<F8> (rightmost key in the bottom row of keys).
 8. Press the INIT MENU key.
 9. Press the following keys:
CLR SETUP (wait 5 seconds)
CLR MEMX (wait 5 seconds)
CLR FLOW (wait 5 seconds)
CLR RS232 (wait 5 seconds)
- IMPORTANT- Be sure to wait for the "XXXXXX INITIALIZED" message to disappear after each key press before pressing the next key.
10. Press DO LOGO, press ENV LOGO and EXIT.
 11. If you have a SERIES 9100 instrument, press the INIT 9100 key, otherwise go to the next step.
 12. Press ANALOG SET and enter the information from the sheet entitled Analog Assignment Editor. Perform the following steps for each item indicated in parentheses () on the Analog Assignment Editor sheet. If you have an S9100, these tables will automatically initialize. However, the flow controller sizes in your system may vary in size. Verify the information in this table if you have an S9100:
 - a. Move the cursor to the "SIZE" row, just below the DAC or ADC number and enter the value indicated on the sheet.
 - b. Move the cursor down to "Device#" and enter the number listed on the sheet.

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c. Press the key marked: ADC/DAC (ON)/OFF

Parentheses should appear around the DAC or ADC number as shown in the sheet.

d. If a number is listed in the row "ADC Link" on the sheet, move the cursor to the "ADC Link" row and enter the number indicated.

Once all data on the screen matches EXACTLY the data in the ANALOG ASSIGNMENT EDITOR sheet, press EXIT once and press EXIT again.

13. Press SYS MAXS. Enter the information from the sheet entitled SYSTEM SETUP or simply verify the information if you have an S9100. (Note: The sheet may indicate "OZONE INSTALLED=NO", even if high ozone, S2010, is installed.)
14. Press EXIT.
15. Press MFC PORTS. Enter the information from the sheet entitled LEGAL PORT EDITOR or verify if you have an S9100. Use the TOGGLE key to add or delete information to match the sheet.
16. Press EXIT.
17. Press PORT MAP.
18. Enter the MFC number from the sheet entitled PORT TO SOLENOID MAP EDITOR. There should be a separate sheet for each MFC (flow controller). The MFC number is identified in the lower left corner of the sheet.
19. Enter the information from the PORT TO SOLENOID MAP EDITOR for that flow controller or verify if you have an S9100. Use the TOGGLE key to add or delete information to match the sheet. When complete, press EXIT. Repeat steps 18 and 19 for each flow controller.
20. Press EXIT twice. This will return you to the READY screen.
21. Press MORE until the TIME/DATE key appears. Press TIME/DATE.
22. Enter the time (24 hour format HH:MM:SS). Cursor down to the date field and enter the date (in DD:MM:YY format). Press UPDATE, and then EXIT.
23. Press MORE until the CALIBRATE MODE key appears. Press CALIBRATE MODE key.
24. If the SYSTEM SETUP sheet indicates "OZONE INSTALLED=NO", skip to step 26.
25. Press the OZONE key. Press INIT ALL, then press YES. Update the calibration pressure field to the pressure shown in the CALIBRATION PRESSURE FIELD IN THE LIVE DATA OZONE CALIBRATION TABLE. Do not update any other data in this table. Next, press SAVE DATA followed by YES. Then press EXIT.
26. Press MFC FLOW.
27. If you have a SERIES 9100 instrument, skip to step 31.
28. Enter the MFC number from the sheet entitled FLOW CALIBRATION. There should be a sheet for each flow controller. Press ACCEPT twice.
29. Press the INIT CAL key, then press YES. Change the "TRUE FLOW" data to match the information from the FLOW CONTROLLER CALIBRATION sheet for that flow controller. When complete, press SAVE CAL and then press EXIT. Repeat steps 28 and 29 for each flow controller.
30. Go to step 33.
31. Enter the MFC number from the sheet entitled FLOW CALIBRATION. There should be a sheet for each flow controller. Press ACCEPT.

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32. Press the INIT COMMAND key. Press INIT TRUE and then YES. Change the "TRUE FLOW" data to match the information from the FLOW CONTROLLER CALIBRATION sheet for that flow controller. When complete, press CALC and then YES. Next, press SAVE CAL DATA and then YES. Press EXIT. Repeat steps 31 and 32 for each flow controller.
33. Press EXIT. This will return you to the main CALIBRATION screen.
34. If you have ADC DEVICE CALIBRATION sheets, go to step 35, otherwise skip to step 38.
35. Press DEVICE ADC.
36. Enter the device number. Enter the calibration data from the ADC DEVICE CALIBRATION SHEET. Press SAVE CAL and EXIT. Repeat step 36 for each ADC DEVICE.
37. Press EXIT.
38. If you have DAC DEVICE CALIBRATION sheets, go to step 39, otherwise skip to step 41.
39. Press DEVICE DAC.
40. Enter the device number. Enter the calibration data from the DAC DEVICE CALIBRATION SHEET. Press SAVE CAL and EXIT. Repeat step 40 for each DAC DEVICE.
41. Press EXIT twice. The instrument should be at the READY screen.

The instrument is now re-initialized to its factory settings. All user configurable data (such as MAINTAIN PORTS, stored FLOW/CONC set-ups and stored SEQUENCER set-ups) must be re-entered.

NOTE: If you have an S2010 with High Ozone, you must enter the NOX test Select MFCs Mode to set up the flow controller to port configuration, refer to NOX CONVERTER EFFICIENCY TEST MFC AND PORT SETUP sheet enclosed with this procedure.