



USING OXYVIEW WITH THE NXIC-ADC

INTRODUCTION:

The NXIC-ADC integrated with an AANDERAA Oxygen Optode is configured at Falmouth Scientific to operate without any need for operator intervention. If the user needs to use the Aanderaa OxyView program this is the procedure.

USING OXYVIEW:

Note: The RS-232 output used by the NXIC is *Normal RS-232 Output but with all text removed*. The RS-232 output used for OxyView display is *Normal RS-232 Output*. The Oxygen Optode must be returned to *Normal RS-232 Output but with all text removed* before exiting Serial Pass Thru Mode.

In order to use OxyView the user must pass data thru the NXIC directly to the Oxygen Optode using the NXIC "Serial Pass Thru Mode". It is important that before continuing the NXIC is set to 9600 baud. In CTDPro menu bar select *CTD -> Communications -> Baud Rate*. Choose *9600* and click the *OK* button. To get to Serial Pass Thru Mode use the terminal window in CTDPro. Open the terminal wido by selecting *VIEW -> Terminal* from the menu bar. To get to Serial Pass Thru Mode:

1. If the CTD data is being continuously output type a capital **S** to stop the data (no *<return>* needed).
2. The NXIC first needs to be changed to Open Mode (*****O<return>**).
3. Then type **PTSER<return>** to enter Serial Pass Thru mode.

At this point all commands are directly passed to the Oxygen Optode. Oxygen data will be continuously displayed. Exit the terminal program and start Aanderaa's OxyView program.

1. In the resulting dialog, choose the COM port the NXIC is connected to and click *OK*.
2. If the *OxyView – A Oxygen Optode Support Program* dialog appears click *OK*.
3. Once the program starts it is necessary to change the Optode's output mode to *Normal RS-232 Output*. To change the output mode, in the menu bar choose *Tools->Run Commands*. In the Command Dialog box:
 - Under *Select Command and/or property*:
 - i. In the *Command* drop down box and select *Set*.
 - ii. In the *Sub-command/property* drop down box select *Output*

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- Under Property Elements
 - i. In the *Element 1* text box type “0”
- Click *Send* the button.
- Now click the *Close Dialog* button

The OxyView program is now set to run.

When finished using OxyView it is important to return the Optode’s output to *Normal RS-232 Output but with all text removed* in order for the NXIC to work properly. To change the output in the menu bar choose *Tools->Run Commands*. In the Command Dialog box:

- Under *Select Command and/or property*:
 - i. In the *Command* drop down box and select *Set*.
 - ii. In the *Sub-command/property* drop down box select *Output*
- Under Property Elements
 - i. In the *Element 1* text box type “100”
- Click *Send* the button.
- Now click the *Close Dialog* button

Now exit OxyView and reopen CTDPro’s terminal window. Exit Pass Thru Serial Mode by typing <CTRL>C. The NXIC should now be in normal operation mode.

TROUBLESHOOTING:

The NXIC-CTD and Oxygen Optode have been setup in the factory to work properly before shipping and should not need any changes. In case of problems check the following:

NXIC:

1. Trouble with Pass Thru mode:
 - a. There are times when a timing problem may arise while entering pass thru mode and communications are not possible. If this happens exit pass Thru <CTRL>C and re-enter pass thru mode (*PTSER<return>*).
2. In Open Mode type ROP to see the operation parameters. CHID5 must be set to 9 for Oxygen Optode. Options must be ON.

Please contact FSI customer service to request technical support. FSI can be contacted using any of the following means:

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