

## NEP5000 firmware updating procedure

### Procedures:

- 1) Connect the wiring setup as shown in Figure 6 to 8.

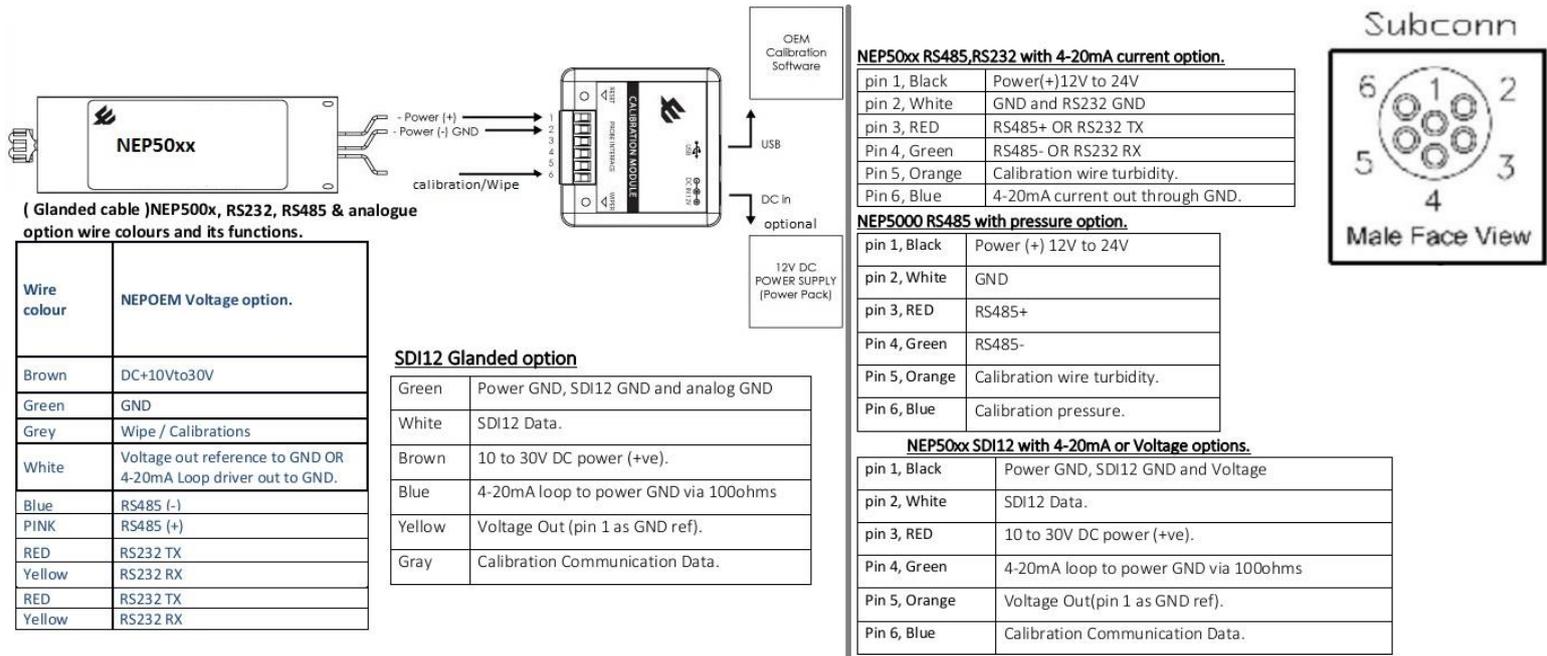


Figure 6: Probe wiring setup with the calibration module.

- 2) Verify the COM Port through the Device Manager from the Control Panel.

Note - Skip this step if the COM Port is known.

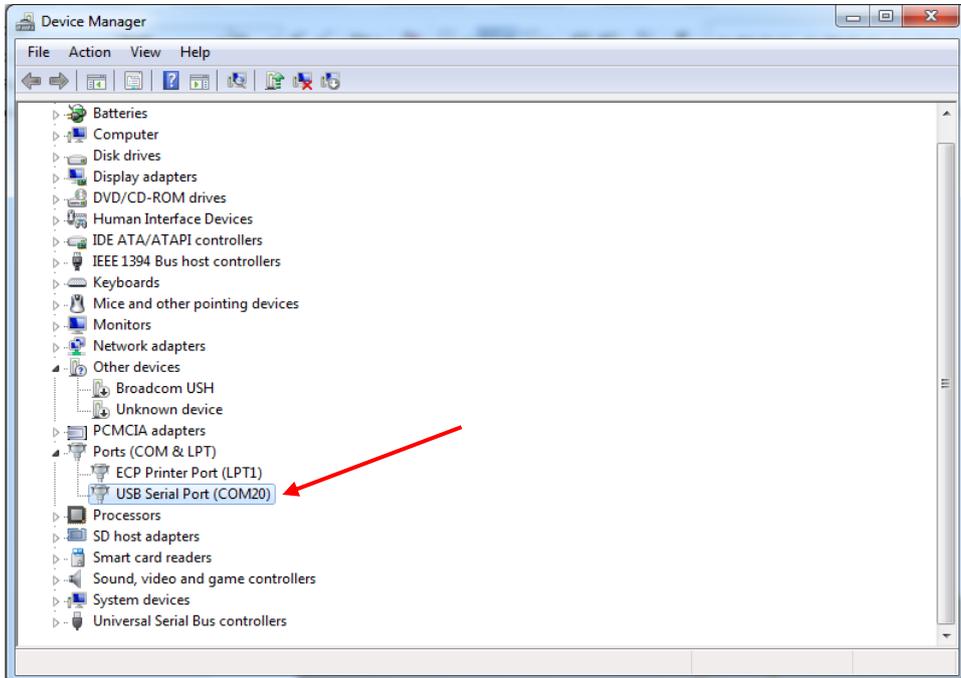


Figure 9: Device Manager window.

3) Execute the software – Nephloimeter OEM.



Figure 10: The icon for the Nephloimeter OEM software.

4) Press the button in *Box A* and set Communication Port in *Box B* accordingly and press "OK" button.

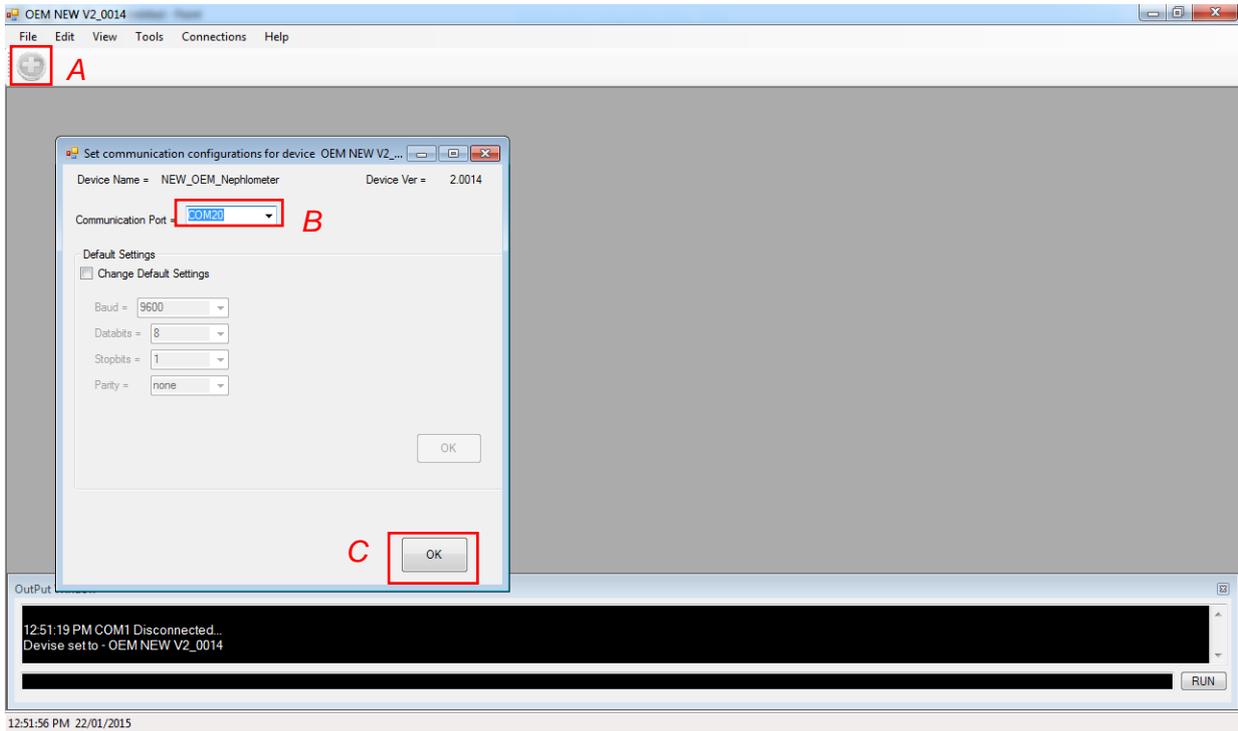


Figure 11

- 5) Press “Tools” from the bar and select “Firmware Programmer.” Ensure all the settings are the same as in the Figure 12.

*Note - The path location for the HEX file is: [C:\NEPOEM2014\_C2 2.014\McVan OEM\Hex\OEMNEW 2-0014 - Turbidity.hex].*

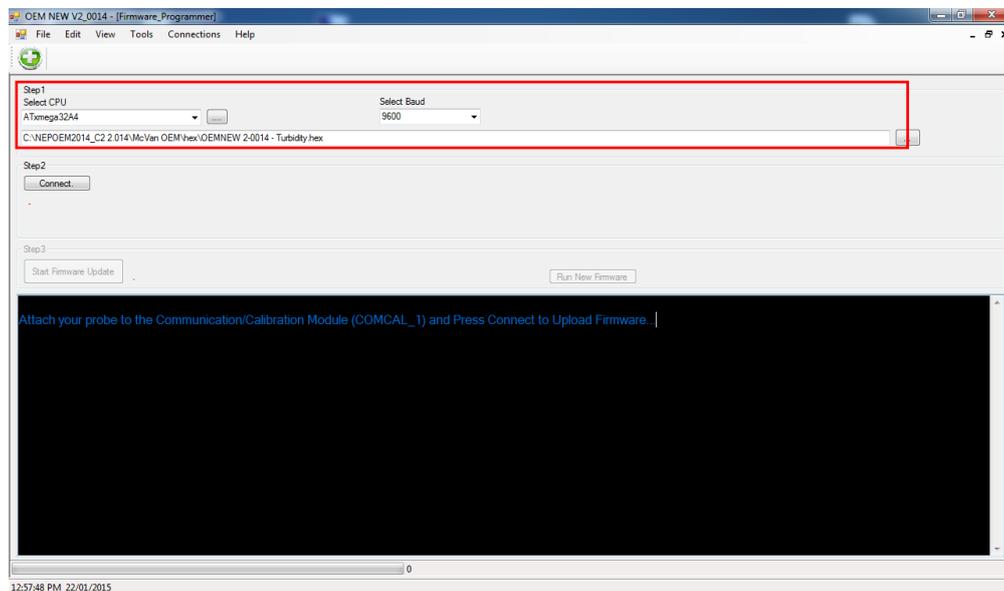


Figure 12

6) Press “Connect” button and a pop-up window appears.

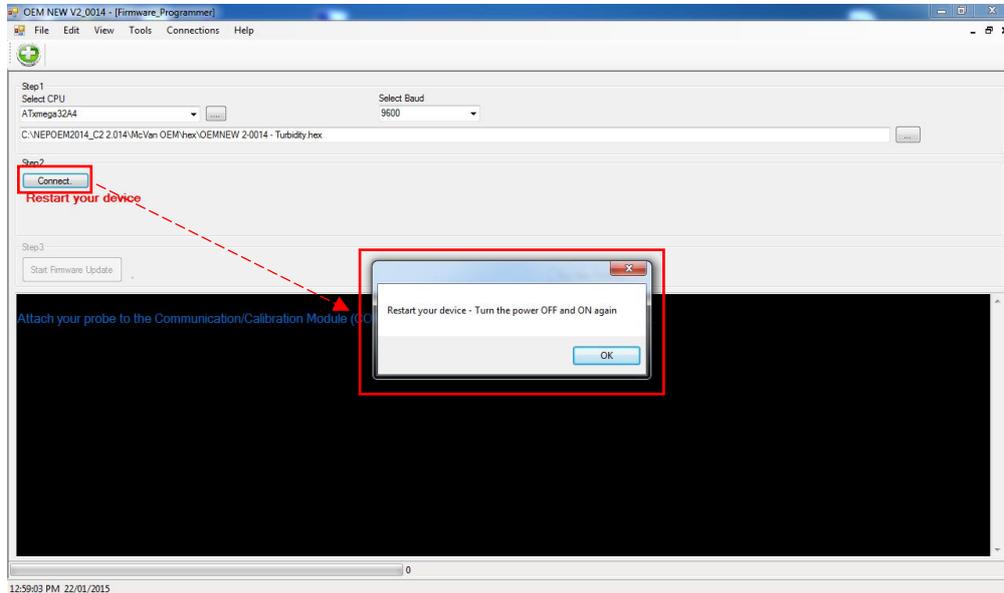


Figure 13

7) Hard press the RESET button on the calibration module and the probe will be connected in Boot Loader Mode.

8) Press “Start Firmware Update” button. It takes about 10 minutes to complete.

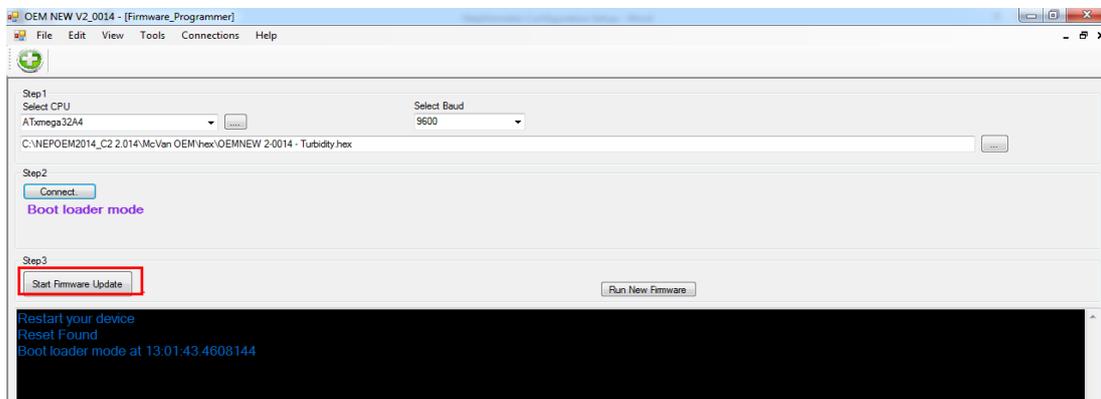


Figure 14

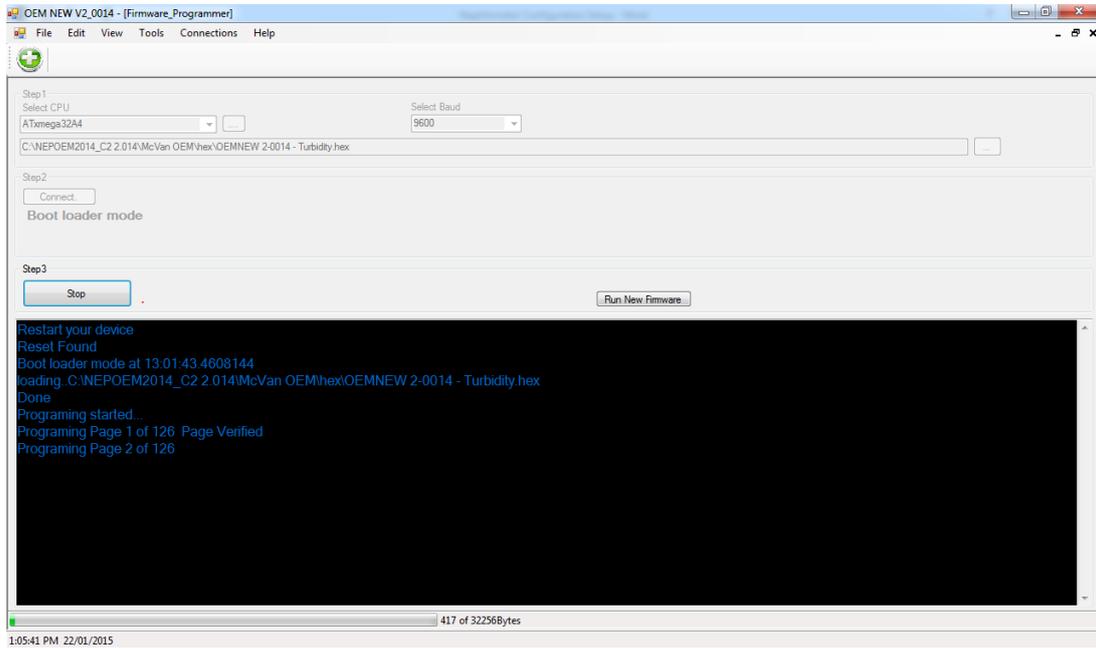


Figure 15

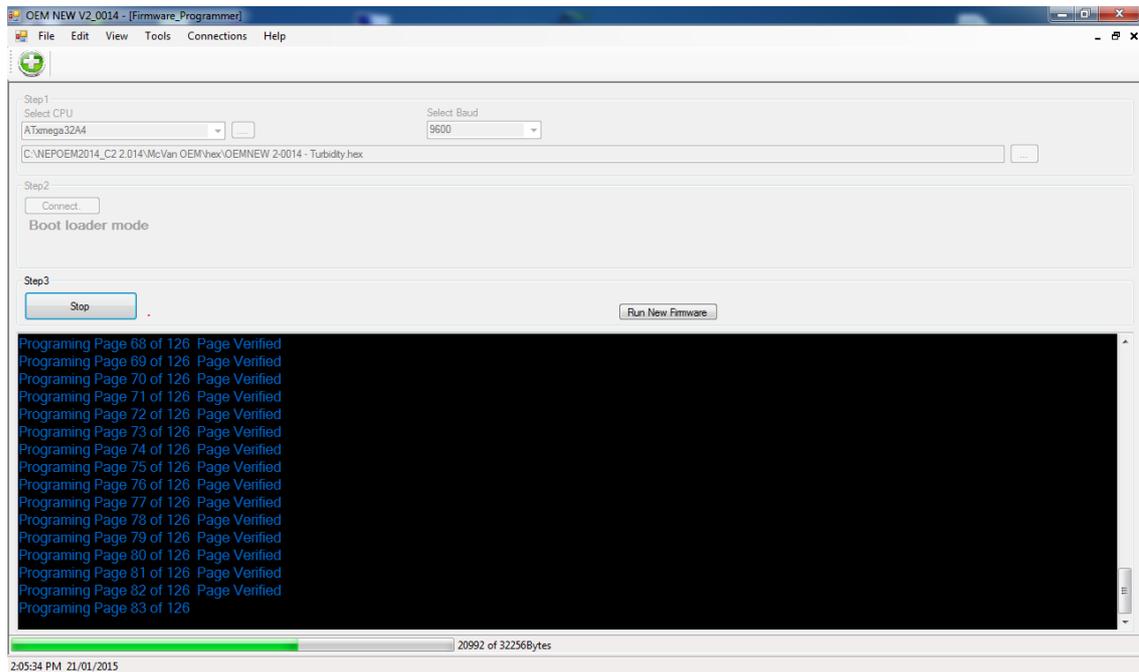


Figure 16

9) Please wait until the firmware update is completed. This may take up to 12 minutes.

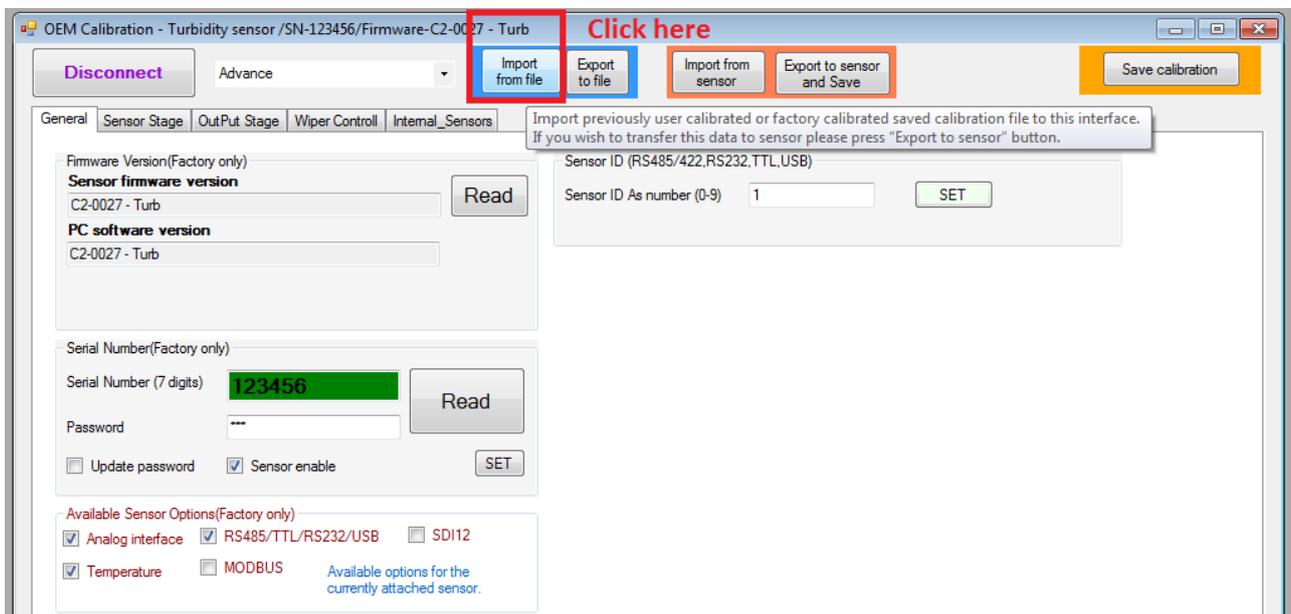
**After a successful completion of the firmware update the sensor require that you reapply the factory calibration(last good calibration) back to the sensor.**

10) Please load calibration data from the sensors [serial number].cfg file using the calibration window to reapply the previous good calibration.

11) User may download factory calibration files from this web location.

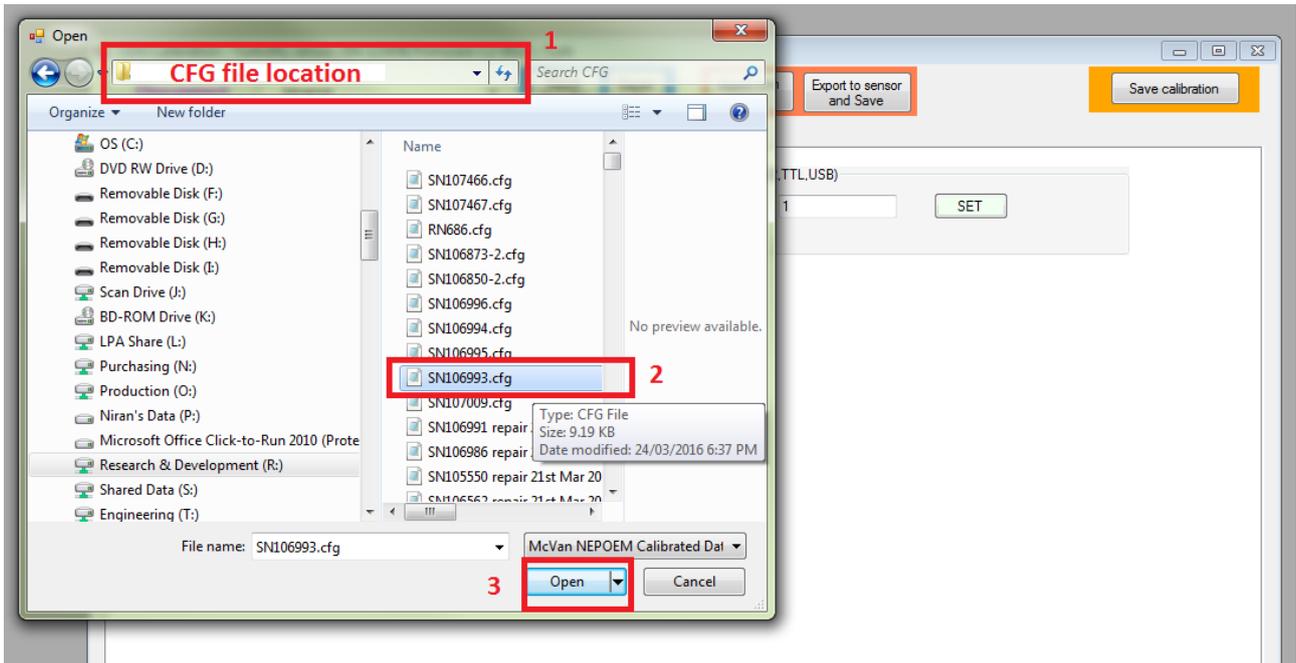
<http://download.observator.com/files/?dir=NEP50XX%20calibration%20data%20files>

After connecting to the calibration window please click on the button shown in red square.

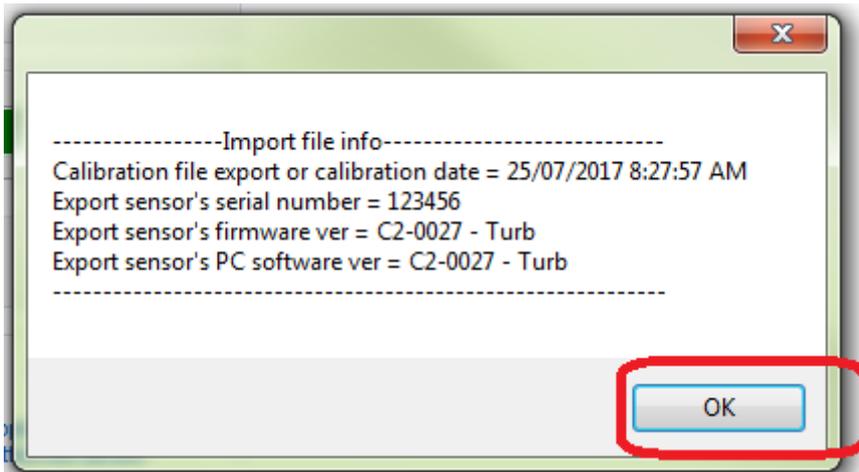


Please select the correct CFG file according the serial number.  
Our online repository for factory calibration are in

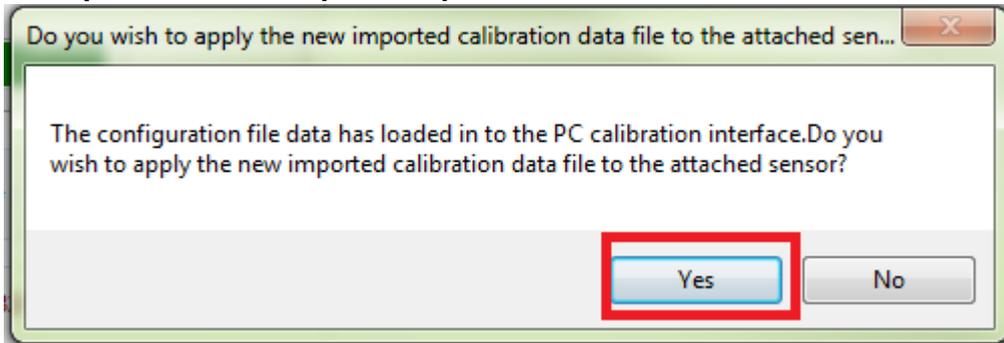
[“http://download.observator.com/files/?dir=NEP50XX%20calibration%20data%20files”](http://download.observator.com/files/?dir=NEP50XX%20calibration%20data%20files)



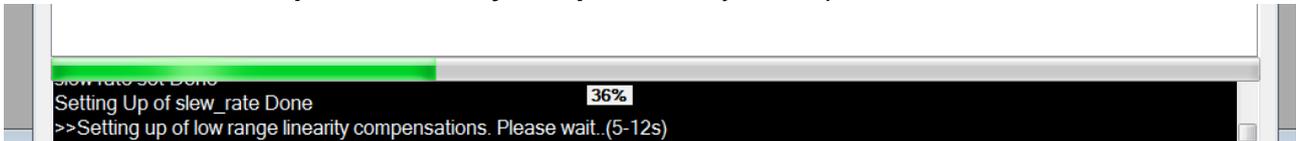
After opening the file the software will display its basic file information on the screen. Please verify this information and press “OK”



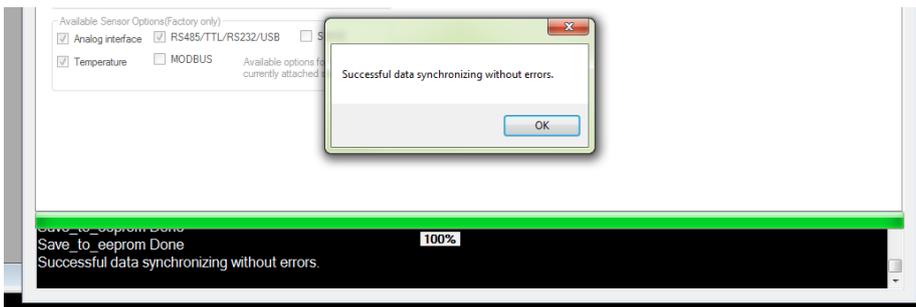
Then press “YES” to upload imported file data to sensor and save.



Please wait until the process is fully completed. May take up to a minutes.



Successful completion of data upload to sensor should display as follows.



After pressing “OK”

