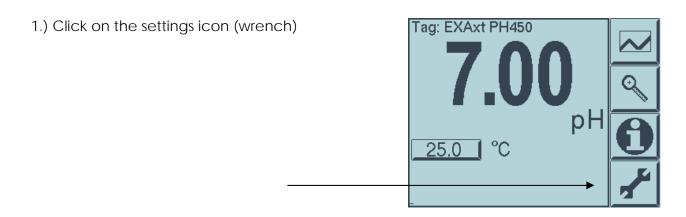
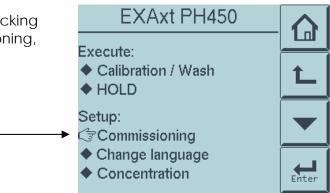


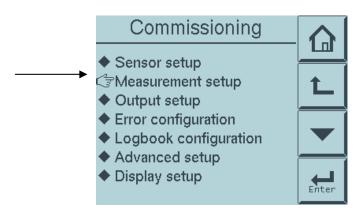
PH450 Analyzer Programming Custom Buffer Tables



2.) Using either the the \blacksquare scroll key or by clicking directly on the diamond next to Commissioning, select it.



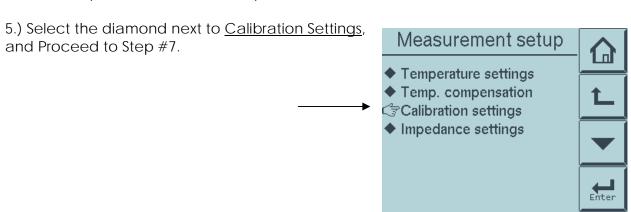
3.) Next, selected the diamond next to Measurement Setup



TECHNICAL NOTE



4.) Depending on what your analyzer is set up to measure, the Measurement screen will look differently. If your analyzer is set up to measure pH only, continue to Setp #5. If your analyzer is set up to measure pH + ORP, Proceed to Step #5a. If your analyzer is set up to measure pH + rh, Proceed to Step #5b.

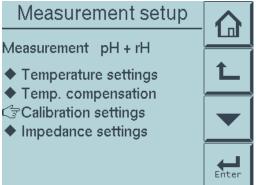


a.) pH + ORP, Select the diamond next to Calibration Settings, Proceed to Step #6

Measurement pH + ORP

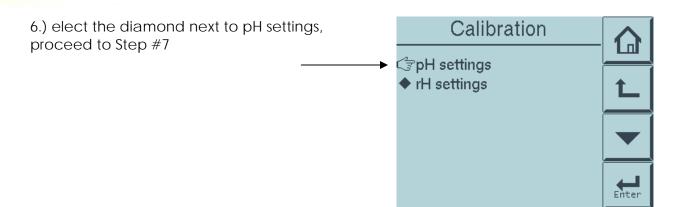
Temperature settings
Temp. compensation
Calibration settings
Impedance settings

b.) pH + rh, Select the diamond next to Calibration Settings ,Proceed to Step #6a





TECHNICAL NOTE



a.) Select the diamond next to pH Setting, proceed to Step #7

Calibration

→ pH settings

→ rH settings

L

Enter

7.) Select the diamond next to Buffers

Calibration pH

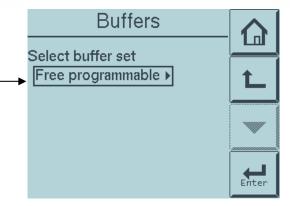
A Zero and Slope units
Limits and timing
Buffers (select set)

Zero / Slope / ITP
Use this menu if you want to manually overwrite the pH calibration results.

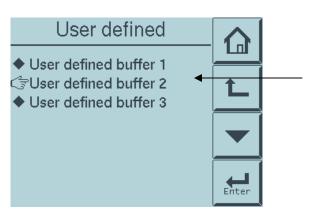
TECHNICAL NOTE

ANALYTICAL

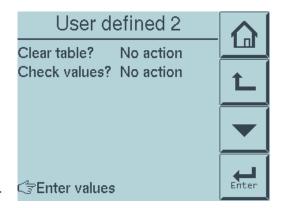
8.) Next, choose the Free Programable option



9.) Depending on which buffers you wil be using in your application, click on the diamond next to the User defined buffer that needs to be changed. User defined Buffer 1, is the buffer table for pH 4.01; user defined Buffer 2, is the the buffer table for pH 6.87; and user defined Buffer3, is the buffer table for pH 9.18. For this example we will choose to change the values within the User Deinfed Buffer 2, pH 6.87, because this is the most commonly choosen table to change values to reflect pH 7.0.



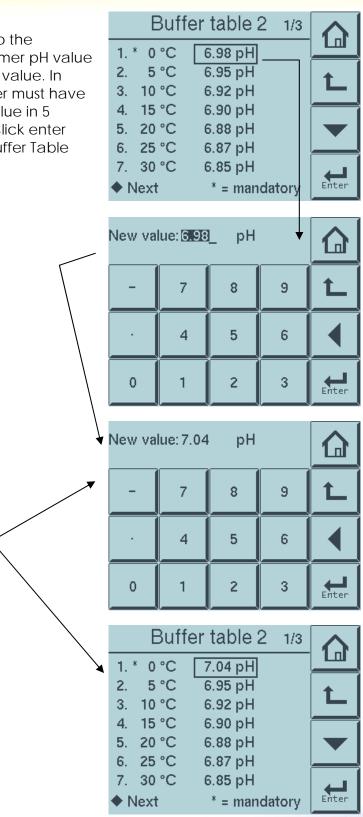
10.) Select the diamond next to Enter Values



ANALYTICAL

TECHNICAL NOTE

11.) Click on each pH value next to the temperature, in order to enter customer pH value for the particular given temperature value. In order to use this feature the customer must have a pH for each given temperature value in 5 degree increments from 0°C-80°C. Click enter when finished, to return to original Buffer Table screen.



ANALYTICAL

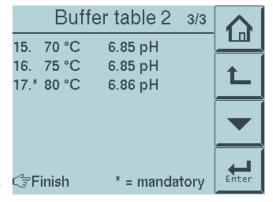
12.) Once the pH values for the temperatures 0°C-30°C have been changed, click on the diamon next the Next to precede to the next page of the table. Note: You do not have to change all of the values, only the ones that are stated mandator.

Buff		
1. * 0 °C	7.04 pH	
2. 5 °C	7.04 pH	•
3. 10 °C	7.03 pH	
4. 15 °C	7.02 pH	
5. 20 °C	7.01 pH	
6. 25 °C	7.00 pH	
7. 30 °C	7.00 pH	
⊘ Next	* = mandatory	Enter

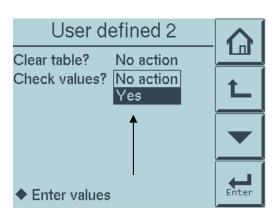
13.) If you choose to fill out the pH values for 35°C-65°C do so in the same manner as described above in step #11. Once the pH values for the temperatures 35°C-65°C that you wish to change have been changed, click on the diamond next the Next to precede to the next page of the table.

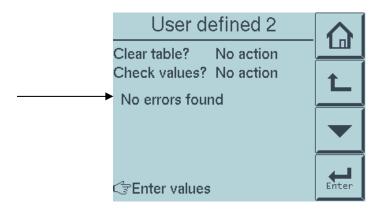
	Buff	er table 2 z	2/3	
8.	35 °C	6.84 pH		
9.	40 °C	6.84 pH		+
10.	45 °C	6.83 pH		
11.	50 °C	6.83 pH		
12.	55 °C	6.83 pH		
13.	60 °C	6.84 pH		
14.	65 °C	6.84 pH		7
GN	lext	none mandato	ry	Enter

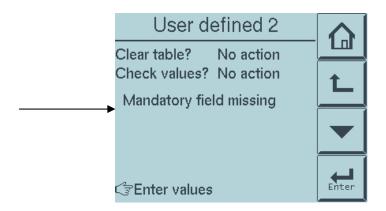
14.) If you choose to fill out the pH values for 70°C-80°C do so in the same manner as described above in step #11. Once the pH values for the temperatures 70°C-80°C that you wish to change have been changed, click on the diamond next the Finish to return to the original User definded 2 Buffer screen.



15.) Next select **YES** under Check Values on the original User Definded 2 Buffer screen. This check is only looking to make sure that the mandatory values are completed. If NO Errors are found the screen should reveal results. However, if a mandatory field was missed the screen would show the error. With that being siad, pay extra attention to make sure that all values entered are entered in correctly. Since this is a free programable option, the system will take any data that is entered.



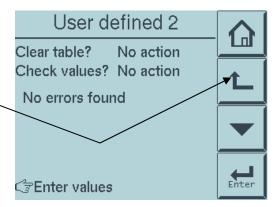




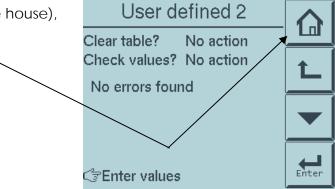
TECHNICAL NOTE



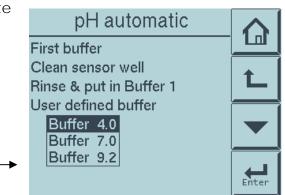
16.) If you want to change another buffer table, click the Back Arrow to return to the User Defined Screen and follow steps 9-15.



Otherwise click on the home icon (the house), to remain to the main page.

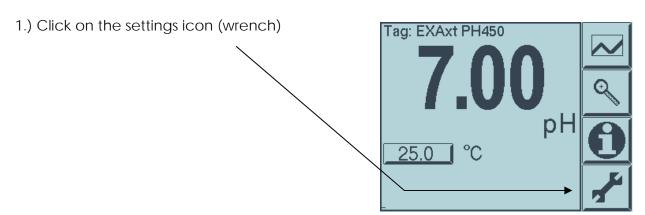


17.) Now when you choose to automatic calibrate the unit will be using user defined pH Buffer.

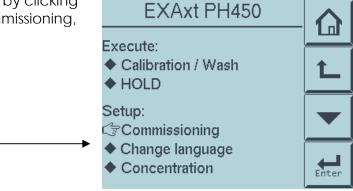




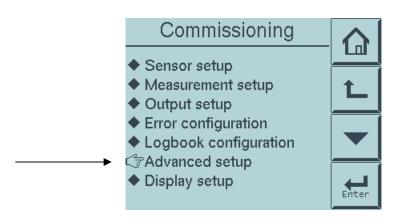
Appendix: If at any point you would like to reset your analyzer back to factory default buffer tables, you can do so by following the steps below.

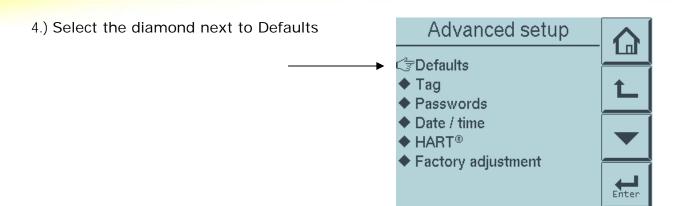


2.) Using either the the \blacksquare scroll key or by clicking directly on the diamond next to Commissioning, select it.

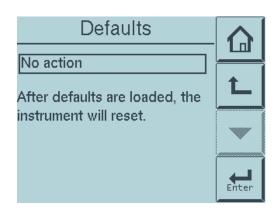


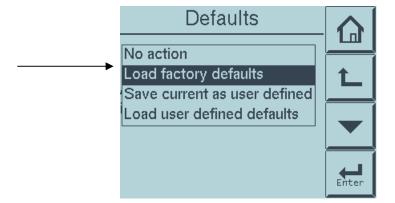
3.) Select Advanced Set up





5.) Choose to Load Factory Default Settings.





6.) Once the system has been restored the unit will automattically go back to the main home page.