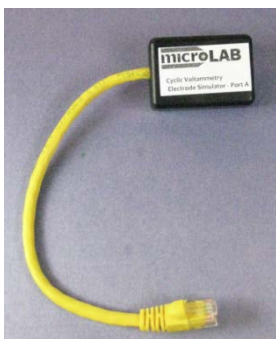
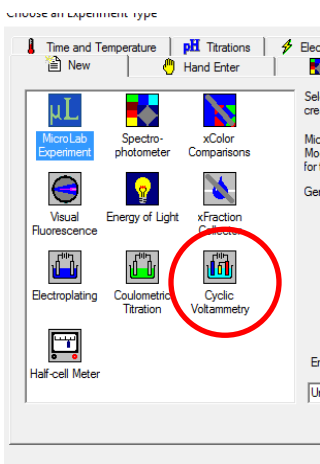


The MicroLab Cyclic Voltammetry Electrode Simulator module may be used to test or demonstrate the Cyclic Voltammetry waveform, and to illustrate how the current through the CV system responds to changes in applied potential or voltage. The simulator module has both linear and non-linear elements inside. It does not show the hysteresis typical of a CV experiment.

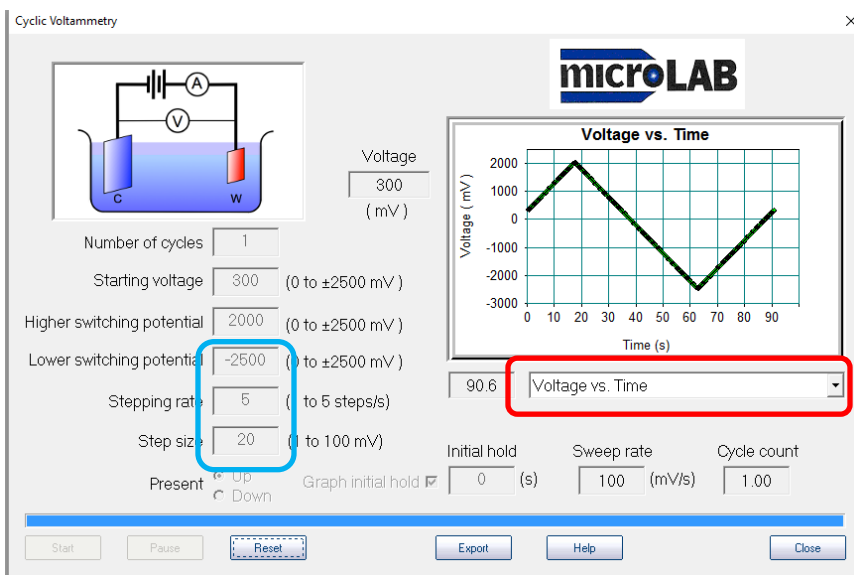
- Plug the electrode simulator into MicroLab Port A.



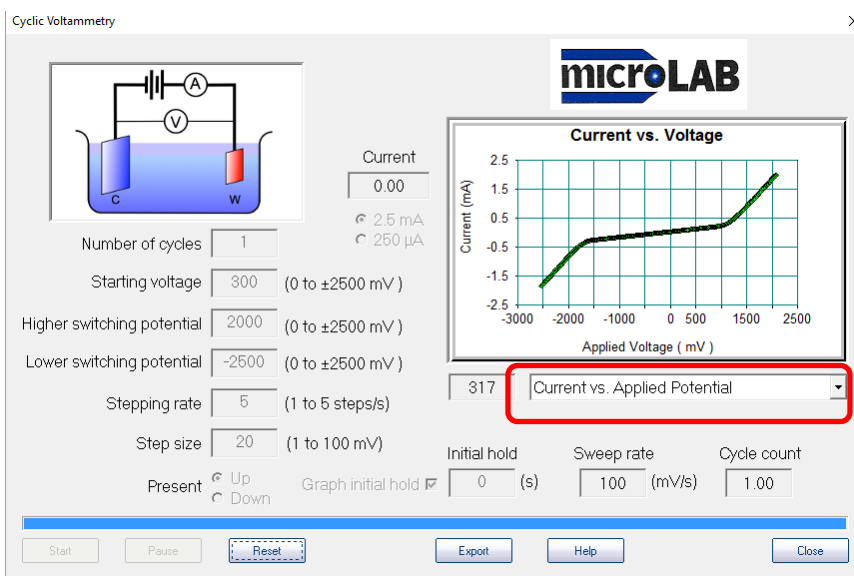
- Call up the Cyclic Voltammetry program



- Set the operating parameters as shown on the screen shot to the right. Make sure the graph is displaying voltage vs time (red box). Three of the numbers are changed from default (blue box).



- Press "Start", and observe the waveform as it is generated. Try changing one or more of the operating parameters and run again.



- Reset and change the graph display to "Current vs applied potential. Run again and watch the simulated CV plot as it is generated.

Here is a screen shot of the CV simulation run with Current (y-axis) vs the voltage between the Ag/AgCl reference electrode and the working electrode plotted as the x-axis. The graphic changes with the change in voltage reference.

Please note that, in software release 8.2.0, you cannot switch between the three x-axis choices “on-the-fly”. You have to select the display format before starting the experiment.

In the next software release the x-axis display can be changed at any time.

