



GAMRY INSTRUMENTS ECM8 Electrochemical Multiplexer User Guide

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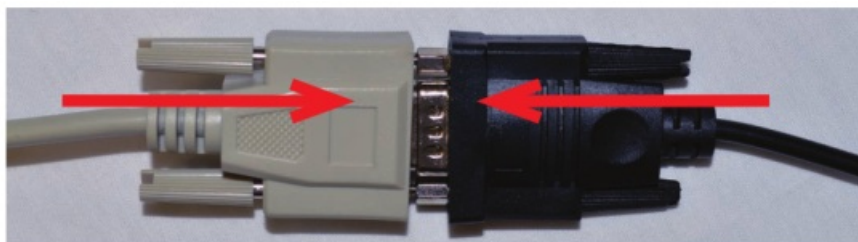


QUICK-START GUIDE



Start-up Guide Electrochemical Multiplexer ECM8

1. Connect the USB-to-serial converter cable to the RS-232to-multiplexer cable.



2. Plug the USB-to-serial converter cable into a free USB port on the host computer.
Windows® detects the cable and assigns a COM port number.
NOTE: If Windows® does not detect the cable, insert the accompanying mini-CD to load the driver.
3. Attach the RS-232-to multiplexer cable to the RS-232C connector on the back of the multiplexer.



4. Attach the Potentiostat/ECM8 cable to the cell cable jack on your potentiostat. Attach the other end of the ECM8 cable to the multiplexer POTENTIOSTAT receptacle.



NOTE: Reference 3000 potentiostats also require a special Y-shaped adapter.

5. Connect the power cord to the rear of the multiplexer. Connect the other end of the power cable to the AC supply (mains).



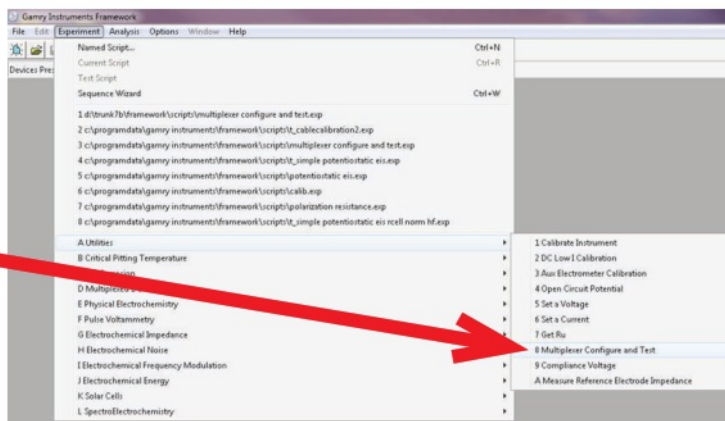
- 6 Turn on the multiplexer via the **POWER** switch on the front of the unit.
The power indicator LED illuminates red.



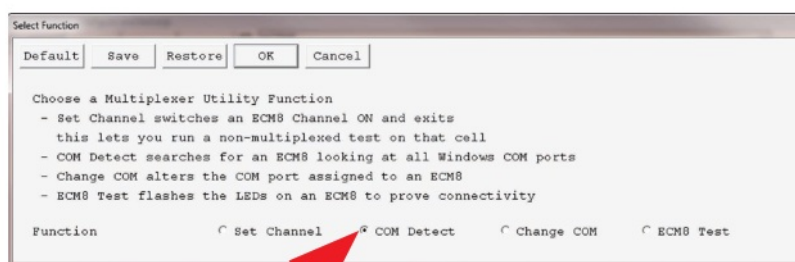
7. On your host computer, open the Gamry Framework software.

8

Choose **Experiment > Utilities > Multiplexer Configure and Test.**



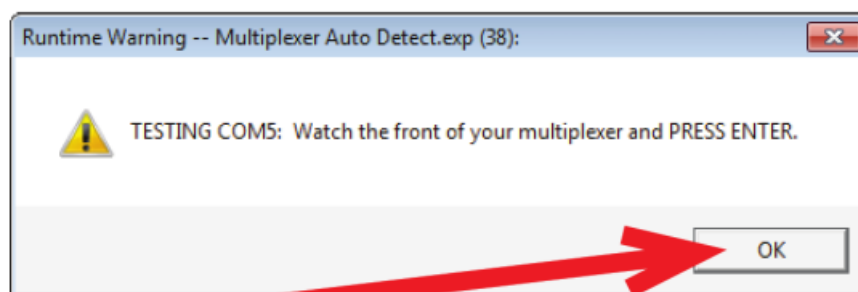
The **Select Function** window appears.



9

Choose the **COM Detect** radio button, and click the **OK** button.

A window informs you that the test will begin.

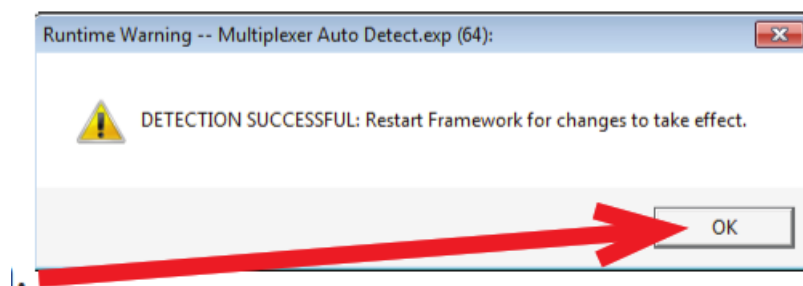


10 Click the OK button.

The automatic detecting software runs, searching for the COM port. Watch the eight amber LEDs on the front of the multiplexer illuminate in sequence three times. Listen for the simultaneous clicks of the relays.



A window asks you to restart Framework.



11 Click the OK button.

Connect the included cell cables to the desired channels on the back of the multiplexer, then restart Framework.

12. In the Framework software, run the desired multiplexed experiment.

13. Activate the checkboxes corresponding to the active channels on the multiplexer.

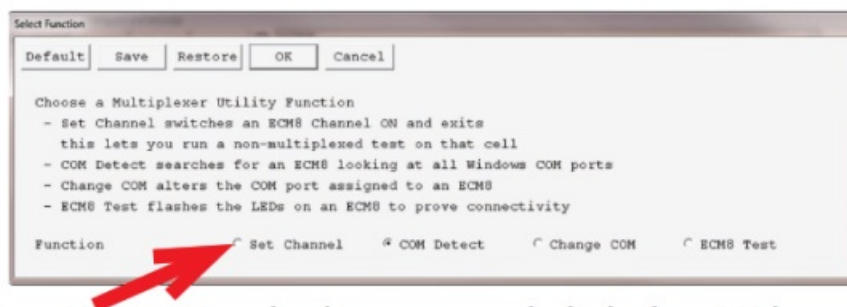
Channel	Identifier	System	Area	Notes
<input type="checkbox"/> 1	Test1	DEFAULT	1	<input type="checkbox"/>
<input type="checkbox"/> 2	Test2	DEFAULT	1	<input type="checkbox"/>
<input type="checkbox"/> 3	Test3	DEFAULT	1	<input type="checkbox"/>
<input type="checkbox"/> 4	Test4	DEFAULT	1	<input type="checkbox"/>
<input type="checkbox"/> 5	Test5	DEFAULT	1	<input type="checkbox"/>
<input type="checkbox"/> 6	Test6	DEFAULT	1	<input type="checkbox"/>
<input type="checkbox"/> 7	Test7	DEFAULT	1	<input type="checkbox"/>
<input type="checkbox"/> 8	Test8	DEFAULT	1	<input type="checkbox"/>

When a particular channel runs, the amber LED for that channel illuminates.

NOTE: For AC experiments (e.g., EIS), you must run AC calibration of your potentiostat with the multiplexer connected. Do not run DC calibration.

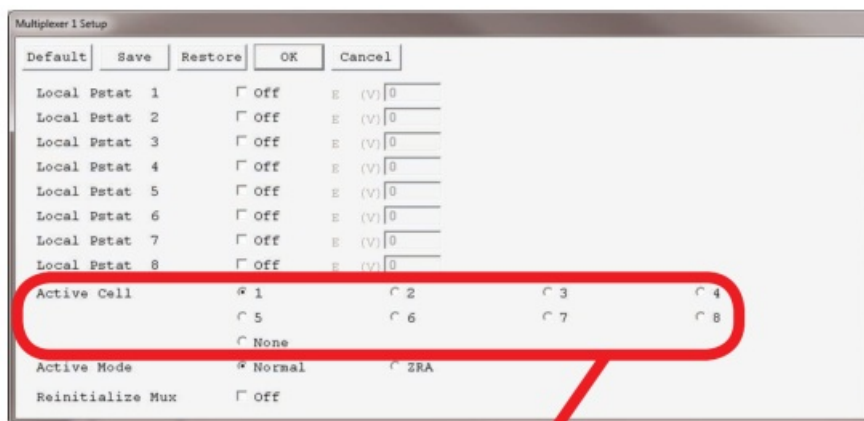
To AC-calibrate multiplexer channels:

1. Choose Experiment > Utilities > Multiplexer Configure and Test, as in step 8 in the previous section. The Select Function window appears.



2. Choose the Set Channel radio button, and click the OK button.

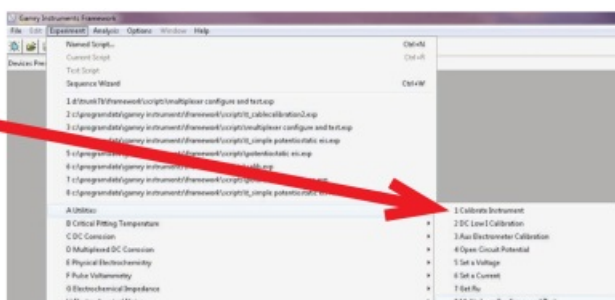
The Multiplexer 1 Setup window appears.



3. In the Active Cell area, choose a radio button for any channel to be calibrated, and click the OK button.

NOTE: You only need to run AC calibration on one channel. All other channels are treated the same.

Choose Experiment > Utilities > Calibrate Instrument.



WHAT DOES GAMRY SOFTWARE DO?

Gamry Framework TM Controls your Gamry potentiostat for advanced and flexible data acquisition. Select from standardized experiments that are grouped by research type or use the Sequence Wizard to build complex automated experiments.
Echem Analyst TM Quick and easy data analysis. Open your data files with Echem Analyst to perform specialized analysis algorithms and produce high-quality plots. Plots can be customized, overlaid, and scaled, or data can be exported for use in other plotting programs.
My Gamry Data TM The default data folder location for Gamry Framework data files. You will find a shortcut on your desktop after installation. The data folder location can be changed within Gamry Framework by selecting Options > Path.

We have a variety of resources available to help you get started.

Feel free to visit our website to find out more information on:

Application Notes – <http://www.gamry.com/application-notes/>

Technical Support – <http://www.gamry.com/service-support/>

Training Videos – <http://www.youtube.com/gamryinstruments>

www.gamry.com

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References

-  [Electrochemical Instruments-Galvanostat/Potentiostat Manufacturer Gamry Instruments](#)
-  [Application Notes Gamry Instruments](#)
-  [Gamry Instruments - YouTube](#)

Manuals+.