
# GAMRY INSTRUMENTS Potentiostat Cable Calibration User Guide



Contents



## GAMRY INSTRUMENTS Potentiostat Cable Calibration


## Specifications

- **Potentiostat Models**: ReferenceTM 600/600+, InterfaceTM 1000/1010, ReferenceTM 3000, InterfaceTM 5000
- **Calibration Cell Resistor Values**: ReferenceTM 600/600+ – 20 k, InterfaceTM 1000/1010 – 2 k, ReferenceTM 3000 – 2 k, InterfaceTM 5000 – 200

## Product Usage Instructions

1. When possible, connect the Chassis Ground on the back of your potentiostat to a known, good earth ground.

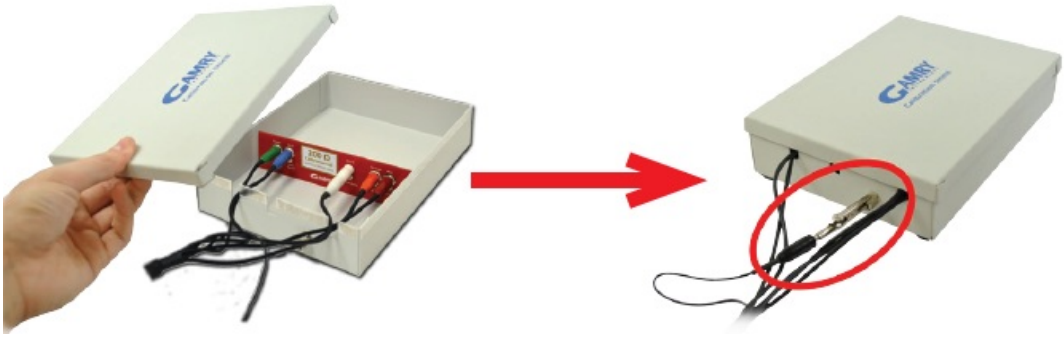


Use larger jacks for 600, smaller ones for 600+

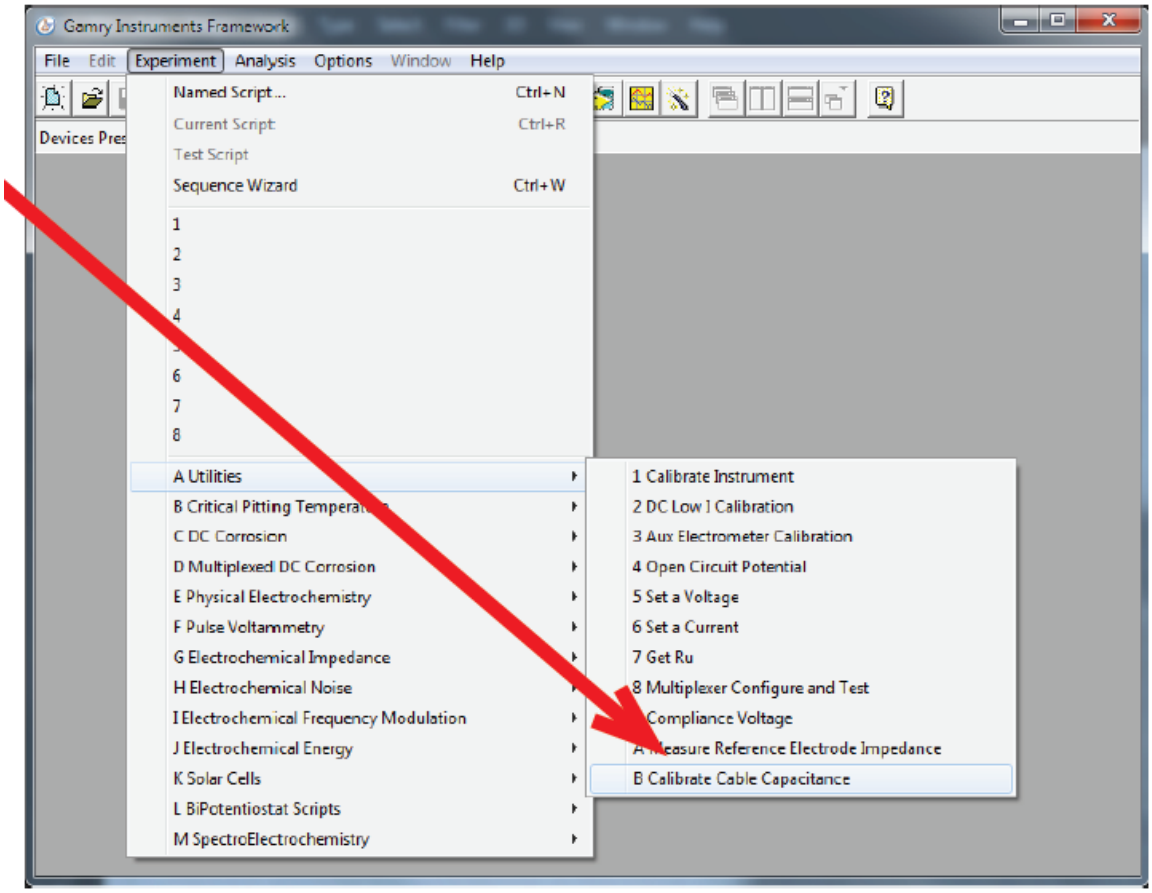
2. Connect the cell cable to the correct receptacles on the correct Calibration Cell included with your instrument.

| Potentiostat | Calibration Cell |
|---|---|
| Reference™ 600/600+ | 20 kΩ |
| Interface™ 1000/1010 | 2 kΩ |
| Reference™ 3000 | 2 kΩ |
| Interface™ 5000 | 200 Ω |

3. Place the Calibration Cell inside the Calibration Shield, close the lid, and connect the black floating-ground lead of your cell cable to the Shield's grounding post.



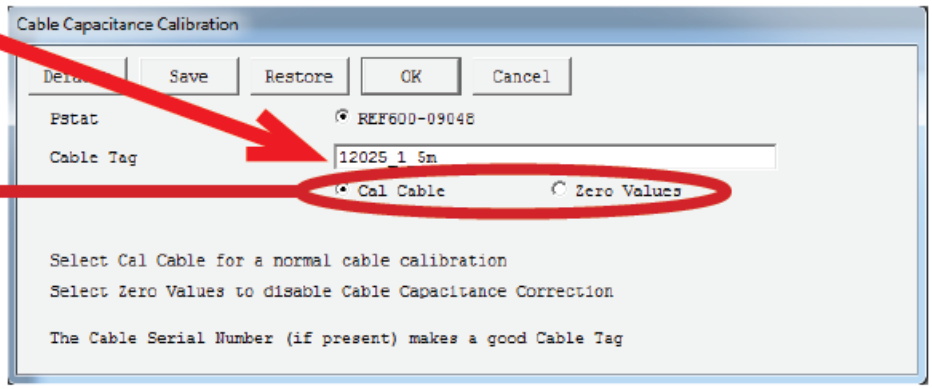
4. Open Gamry Instruments Framework™. Select Experiment > Utilities > Calibrate Cable Capacitance.



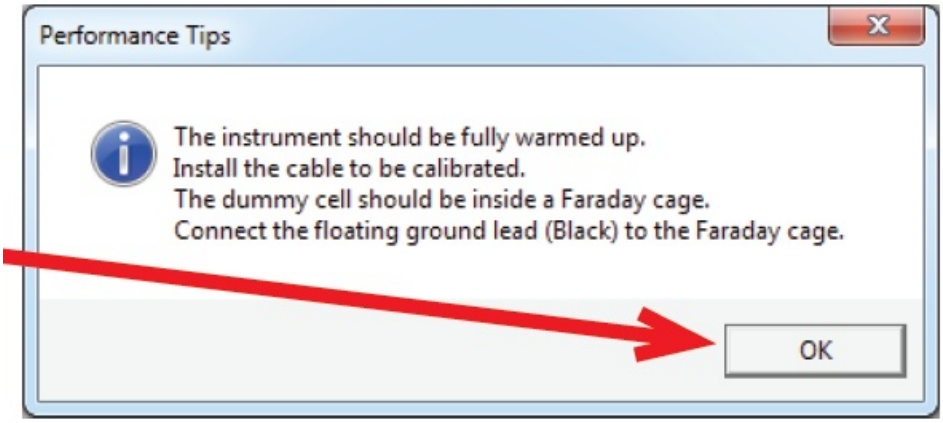

5. In the Cable Tag field, enter a unique name for the cable you are calibrating.

   **Choose the desired Action radio button:**

   - To calibrate the cable, choose Cal Cable.
   - To reset the vales to zero (if, say, the calibration doesn't work), choose Zero Values.

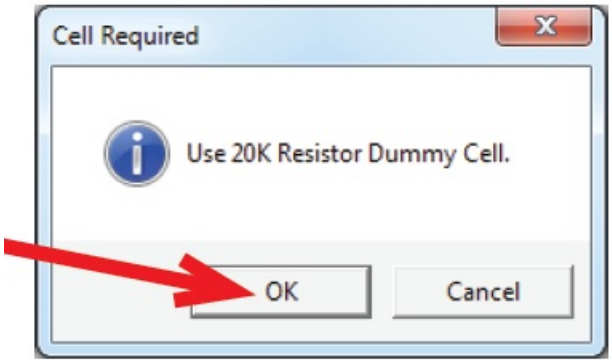



6. Click the OK button. The Performance Tips window appears.
7. Make sure that all of the tips are true, then click the OK button.

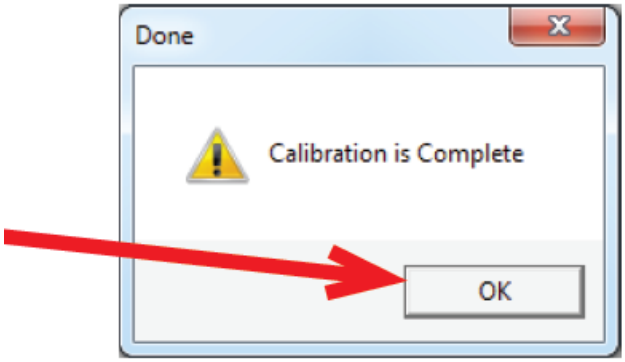



The Cell Required window appears. The resistor value listed for your Dummy Cell may vary depending on your potentiostat.

8. Make sure that the correct Calibration Cell is attached, then click the OK button. The calibration runs. The Done window appears.



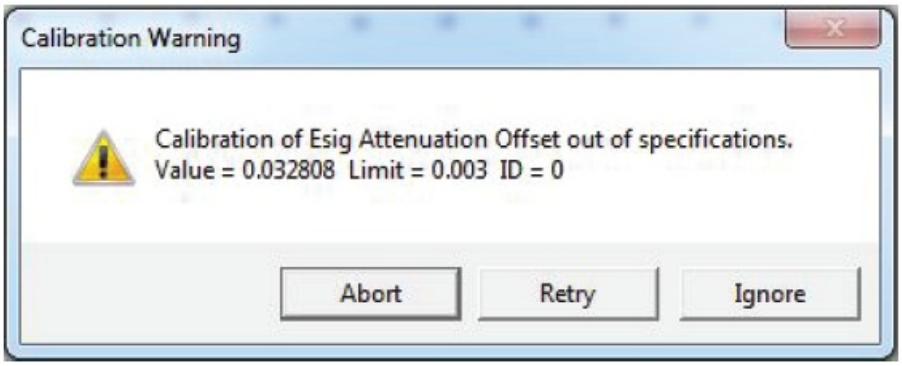

9. Click the OK button to acknowledge completion.




**Did you receive a CALIBRATION WARNING?**

**TROUBLESHOOTING A FAILED CALIBRATION**

Calibration is used to check the potentiostat's health, and to "zero" many of the measurement circuits to your laboratory environment. A warning does not necessarily indicate a critical failure, and Gamry can use calibration information to determine the source of the warning.




1. **Double-check the following:**
    - Correct colors are attached to the Calibration Cell jacks.
    - Floating-ground cable is connected to calibration shield.
    - If possible, the Chassis Ground is attached to a known, good earth ground.
2. Click the Retry button, and the rest of the calibration restarts. Click the Ignore button for any other calibration warnings that may appear, and continue to Step 3.
3. **After a failed calibration attempt:**
    - Find Calibration Results PC6-#####.txt in your My Gamry Data folder.*
    - E-mail the file, along with complete contact information, to Contact Technical Support * ##### is the serial number of your potentiostat.

Cable Calibration QSG – 988-00065 rev. 1.2 – Gamry Instruments © 2018

## FAQ

**Did you receive a CALIBRATION WARNING?**
**Troubleshooting a Failed Calibration:** Calibration is used to check the potentiostat's health and zero many measurement circuits to your lab environment. A warning doesn't always indicate critical failure. Gamry can use calibration data to diagnose the issue.

## Documents / Resources

| | |
|---|---|
|   | GAMRY INSTRUMENTS Potentiostat Cable Calibration [pdf] User Guide<br>ReferenceTM 600-600, InterfaceTM 1000-1010, ReferenceTM 3000, InterfaceTM 5000, Potentiostat Cable Calibration, Cable Calibration, Calibration |

## References

- User Manual