

Reference 3000/3000AE QUICK-START GUIDE



Guide #2 USB Potentiostat Calibration

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





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(1)

Connect the cell cable to the 2 kO Calibration **Cell** included with your instrument.



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



Open Gamry Framework[™]. Select **Experiment** > **Utilities** > **Calibrate Instrument**

	💩 Gamry In:	truments Framework	
	File Edit	Experiment Analysis Options Window Help	
	10	Named Script	
	Devices Pres	Current Script	Ctrl+
	Dencestric	Test Script	
		Sequence Wizard	Ctrl+W
		1 c:\programdata\gamry instruments\framework\scripts\	.calib.exp
		2	
		3	
		4	
		5	
		7	
		8	
		A Utilities	1 Calibrate Instrument
		B CPT110 - Critical Pitting Temperature	2 DC Low I Calibration
		C DC105 - DC Corrosion	 3 Aux Electrometer Calibration
Choose your potentiostat. Select the radio bi	utton	Votentiostat Calibration	
for calibration type Both and click the OK bu	itton	Default Save Rea- 0	K Cancel
for calibration type both, and eller the or be	accorn.	C REF 60	00P-30063 C REF3000-31103 C REF3000-31102
		Calibration Type: Both	O DC O AC
		CURRENT CALIBRATION STATUS	
		Label: REF600P-30063 Family:	PC5 Cable Id: Shielded (60cm)
		No AC Calibration Information	4/13/2016
After you confirm several instructional		Tabel, DEE2000-21102	DC5 Coble Id. Shielded (1 5m)
Arter you commit several instructional		DC Calibration last performed on	4/18/2016
messages, the calibration proceeds		No AC Calibration Information	
automatically and you are notified if the		Label: REF3000-31102 Family:	PC5 Cable Id: Shielded (1.5m)
automatically, and you are notified if the		DC Calibration last performed on	4/18/2016
calibration is successful		AC Calibration last performed on	4/18/2016

Steps 6 through 8 are for the 3000AE only.

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Connect the auxiliary dummy cell AEC1. Connect the five regular, colored leads to the top jacks, and the multiple pairs of leads to the array of 16 jacks. Connect the other ends of the cables to the correct jacks on the 3000AE.



Turn on the instrument and open Gamry 7) Framework[™]. Select Experiment > Utilities > Aux **Electrometer Calibration**



Select the radio button for the correct instrument, and click the **OK** button.

After you confirm several instructional messages, the calibration proceeds automatically, and you are notified if the calibration is successful.



Did you receive a **CALIBRATION WARNING?**

TROUBLESHOOTING



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.

Calibration	of Esig Attenuation Offset out of specificat	tions.
1/1 0.0	10000 L: :: 0 000 ID 0	
Value = 0.0	12808 Limit = 0.003 ID = 0	
20.0 Value = 0.0	32808 Limit = 0.003 ID = 0	
210 Value = 0.0	2808 Limit = 0.003 ID = 0	

- Double-check the following:
 - Regular connections are to a 2 $k\Omega$ Calibration Cell.
 - Confirm all channels and polarities for the AEC1 calibration.
 - Floating-ground cable is connected to calibration shield.
 - If possible, the Chassis Ground is attached to a known, good earth ground.

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.



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After a failed calibration attempt:

- Find Calibration Results PC5-#####.txt in your My Gamry Data folder.*
- E-mail the file, along with complete contact information, to techsupport@gamry.com

* ##### is the serial number of your potentiostat.