



Reference 3000/3000AE™

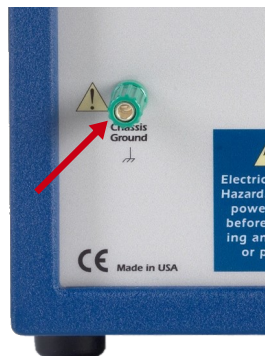
QUICK-START GUIDE



Guide #2 Potentiostat Calibration

Calibrating your Reference 3000/3000AE Potentiostat

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



2 Instructions for the Reference 3000 only (steps 2-4)

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

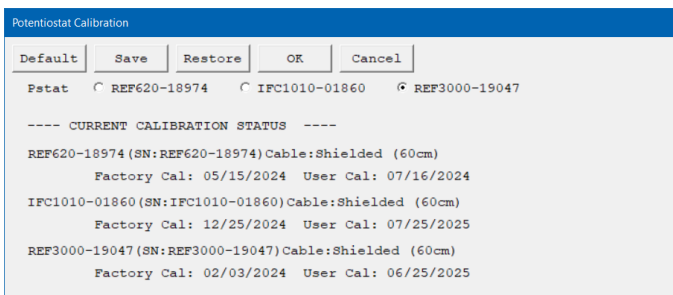


3 Place the **Calibration Cell** inside the **Calibration Shield**, close the lid, and connect the black floating-ground lead of your cell cable to the Shield's grounding post.



4

Open the Gamry Framework™ software. Go to the menu and select **Experiment > Utilities > Calibrate Instrument**.



Choose your potentiostat and click the **OK** button. The calibration proceeds automatically, and you are notified if the calibration is successful.

At the end of the calibration, you can choose to **Save** the results. Select **Yes** to use the new calibration data and overwrite the previous file. Select **No**, to discard the calibration data and revert to the original calibration data.



Regardless of a successful or failed Calibration, a summary file is stored in your **My Gamry Data** directory. In case of a failed calibration, you can use this file when contacting Gamry's **Technical Support** (see next page).

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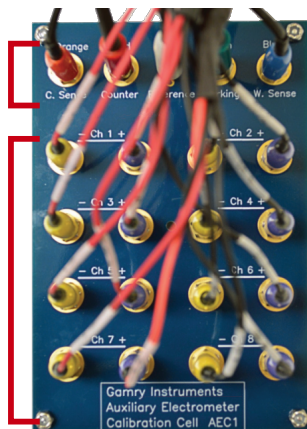
Instructions for the Reference 3000AE only (steps 5-6)

Connect the **Auxiliary Electrometer Calibration Cell AEC1**.

1. Connect the five regularly colored leads of the potentiostat's cell cable to the top jacks.
2. Connect the multiple pairs of sense leads for the AE channels 1-8 to the array of 16 jacks.

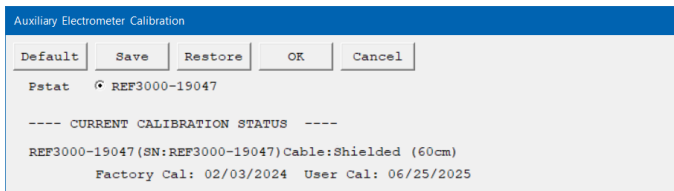


The pairs of sense leads are labeled with the AE channel number (1-8) and polarities. Make sure to match the leads to the correct jacks.



6

Open the Gamry Framework™ software. Go to the menu and select **Experiment > Utilities > Aux Electrometer Calibration**.



Auxiliary Electrometer Calibration

Default Save Restore OK Cancel

Pstat ☒ REF3000-19047

---- CURRENT CALIBRATION STATUS ----

REF3000-19047 (SN: REF3000-19047) Cable: Shielded (60cm)

Factory Cal: 02/03/2024 User Cal: 06/25/2025

Choose your potentiostat and click the **OK** button. After you confirm several instructional messages, the calibration proceeds automatically, and you are notified if the calibration is successful.

Troubleshooting a Failed Calibration



Calibration is used to check the potentiostat's health and to "zero" its many instrument circuits to your test environment. A warning does not necessarily indicate a critical failure. Gamry's technical support team can use the calibration information to determine the source of the warning.

1. Double-check the following:
 - The regular connections are made to a **2 kΩ Calibration Cell**.
 - Confirm all channels and polarities for the **AEC1 Calibration Cell**.
 - The floating-ground cable is connected to the **Calibration Shield**.
 - If possible, **Chassis Ground** is attached to a known and good earth ground.
2. Click the **Retry** button in the error dialog box to restart the rest of the calibration. Click the **Ignore** button for any other calibration warnings that may appear, and continue to the next step.
3. After a failed calibration attempt:
 - Locate the summary file of the calibration in your **My Gamry Data** directory. The filename should look similar to the example below, depending on the instrument: Calibration Results PC5-#####.txt
 - Go to Gamry's website and fill out the **Technical Support** contact form: <https://www.gamry.com/support-2/contact-technical-support/>

Don't forget to attach the Calibration summary file you located earlier.