



Load/Power Supply Interface (LPI1010)
High Voltage EIS Test System

QUICK-START GUIDE



Hardware Installation and Configuration



Install your Interface 1010 potentiostat

Install your Interface 1010 potentiostat and calibrate the instrument. Please refer to the Interface 1010 Operator's Manual for detailed information. The latest version of the manual can be downloaded on the Gamry Instruments website at <https://www.gamry.com/support/documentation-downloads/>.

④ Connect Current Monitor and Current Control Cables

The LPI D-sub Module has one cable end with two BNC connectors. Connect the red-marked BNC connector lead to the mating **current control** (I_CTRL) input of your power supply. Connect the second, black-marked BNC connector to the **current monitor** (I_MON) output of your power supply.



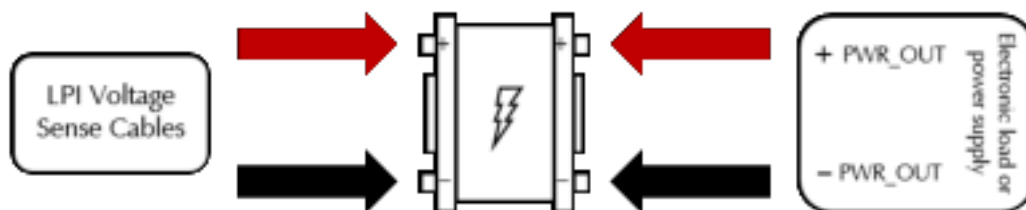
⑤ Connect Voltage Sense Cables

The LPI D-sub Module is connected via a cable to one side of the Cable End Module. On the other side, connect both red and black Voltage Sense Cables which are supplied with your LPI1010 system to the mating banana connectors of the Cable End Module. The red cable is assigned to the positive (+) contact and the black cable is for the negative (-) contact.



⑥ Connect your cables to the DUT (Device Under Test).

Connect both Voltage Sense Cables to the electrode contacts of your DUT. The red connector is for the positive lead, the black connected to the negative contact. Afterwards, connect the power supply to your DUT. Depending on your system, the **power output** may vary. Use appropriate cables and adapters.



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Configure the Hardware Settings of your Electronic Load or Power Supply

- 1) Ensure that the DUT is not connected to anything.
- 2) Verify that the output of your electronic load or programmable power supply is set to zero.
- 3) Turn on your electronic load or programmable power supply.
- 4) Set the operation mode **External Current Control**.
- 5) Set the **full-scale current** on your electronic load or programmable power supply to accommodate the maximum desired current.

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Configure the Framework Settings for your Electronic Load or Power Supply

- 1) Ensure that your LPI1010 is plugged into the Interface 1010 instrument and the LPI1010 is powered.
- 2) Power on your Interface 1010 and ensure that its USB port is connected to your computer.
- 3) Start the **Gamry Instrument Manager** from either the Start menu or from within the Framework™ software by selecting **Options > Instrument Manager...** on the Framework Menu.

- 4) Click on the potentiostat that is connected to the LPI1010. Check if any software updates are required.
- 5) Press the **Configure** button to open the LPI Configuration Entry.
- 6) Correctly enter all parameters in the **LPI Configuration Window** for your Electronic Load or Power Supply in use and press OK.

User Calibration



Open the LPI Calibration script

- 1) Ensure that your LPI1010 is plugged into the Interface
 - 2) Power on your Interface 1010 and ensure that its USB p
 - 3) Open the LPI Calibration script by selecting **Experimen**
- The name of the LPI calibration script is **CALIBLPI .EXP**