INTRODUCTION:

What is Sourcerer ?

Sourcerer Instrument Control Software lets you start making measurements in minutes without complex instrument programming .It allows you to do I-V characterization, data acquisition and logging, and power supply control on a variety of Keithley sourcemeter model 2400.The software controls instruments through the standard USB Interface. Data can be displayed in a graph format.All data can be stored in css files and can be exported using emails directly through the software for further analysis.

About the User manual:

This guide contains basic instructions for the Sourcerer software. Additional information specific to the Keithley Sourcemeter model 2400 is available on the Keithley Instruments website at [www.tek.com/keithley](http://www.tek.com/keithley).

Contact information

If you have any questions regarding the Sourcerer software after you review the information in this manual, please contact the following developers:

Akash Kumar Ahirwar :

Amey Kiran Patel :

Chinmay Anand :

Mohit Malviya :

Sandharb Sahu :

installation

Connecting Keithley to computer

Identifying sourcemeter through software

* Signing up and Logging in :

The first window which appears after launching Sourcerer is the login window through which u can log in to the software and gain access to your previously done work.

-For logging in just enter your <username> and <password> in the space provided in the login window and click on the “LOGIN” button to log in .

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Forgot Password--------

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If operating Sourcerer for the first time, you’ll need to create your account.

To create a new account:

1. Click on the “Create a new account” button.
2. The Sign Up page opens with details such as your name, username, email-ID and password. Fill in the details and click on the “SIGN UP” button to create your new account .

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* Regulating Voltage

The system function of Sourcerer is to be able to regulate the voltage through sourcemeter as per the wish of the user.

There are 3 different voltage specifications available in the software.

1. Constant Voltage
2. Sinusoidal Voltage
3. Linearly Variable Voltage

To Apply any of the above voltage:

1. Select the sourcerer tab from the 3 tabs on the top of the window
2. Select the desired voltage specification
3. Fill details according to the selected voltage specification for example:- for constant voltage fill value and time of experiment whereas for variable fill step size starting voltage and ending voltage
4. Click on “START” button to start the experiment.

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There are extra options available such as compliance,voltage Range,Resistance Range.

Use LED will be discussed in the next section.

* Using LED :

Sourcerer can be used to control a light source in form of a LED to observe changes due to exposure of light on the sample.

To use LED:

1. Repeat the process of regulating voltage till step 3 to set up the experiment.
2. Before clicking on the start button select the “USE LED” option.
3. Click on “START” button
4. A window will open regarding the operating details of the LED.
5. Fill the corresponding details and Click on “START” button to start the experiment.

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