

**KickStart**



**Guide**



## **Safety precautions**

Before using this product, see the safety precautions associated with your instrument. The instrumentation associated with this software is intended for use by personnel who recognize shock hazards and are familiar with the instrument safety precautions to avoid possible injury or death. Read and follow all installation, operation, and maintenance information carefully before using any instrument.

Refer to the instrument user documentation for complete product specifications. If the product is used in a manner not specified, the protection provided by the product warranty may be impaired.

Safety precaution revision as of January 2018.

## KickStart software

KickStart allows you to create apps, manipulate settings, and view and export previous runs without a license. However, to run an app or communicate with and control an instrument, KickStart software requires a license.

You can launch a one-time trial for the KickStart Apps. This 30-day trial is inclusive for all the KickStart apps. This means that once you start your trial it is activated for each app for a total of 30 days. Note that you can refer to page eight of this guide for more information about the trial and the KickStart apps.

You can go to [tek.com/keithley-kickstart](https://tek.com/keithley-kickstart) and you will see information about the software. On this page you can also download free trial software and buy or request a quote.

## Manage licenses

You can maintain your licenses from within KickStart. The KickStart software licenses provide access to KickStart applications and features. A license is activated either by purchasing the software or through a trial. A trial will allow you to use full functionality for a limited period of time.

To install or remove a license, select the key icon  .

You can also view previously entered licenses and the dates and times for when the licenses were entered and checked out and when they expire.

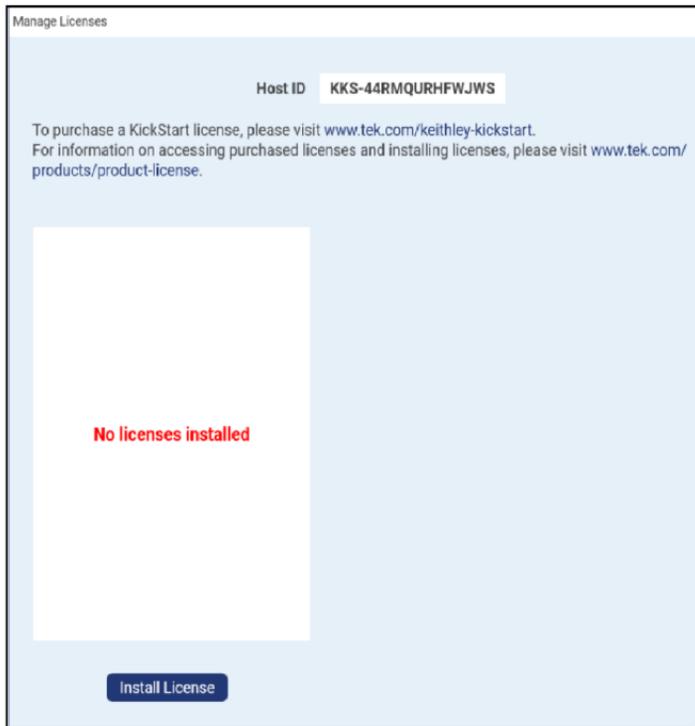
Each license entitles you to support by Tektronix worldwide technical support centers and field applications engineers.

## Install a license

KickStart software licenses are managed using the Tektronix Asset Management System (TekAMS). Each KickStart license is valid for a single computer at a time. Use TekAMS to check out the license for your computer so that you can move the license to a different computer. That process is described on the next page. The email address of the primary user or administrator who manages the license is the license key manager. Key managers are authorized to add users who can then access these licenses and assign them to specific instruments and computers. For more information on TekAMS, see [tek.com/products/product-license](http://tek.com/products/product-license).

To generate a license file, you must submit your **Host ID** to TekAMS. The **Host ID** is located at the top of the **Manage Licenses** window.

Download the license file from TekAMS and transfer it to the computer that will run KickStart software. Open KickStart software and select the key icon . Using the **Manage Licenses** window, select **Install License** and browse to the downloaded license file. After the license is entered, the license and its details are viewable.



## Maintenance and License Key Expiration

### Maintenance:

Indicates the date your license will expire and when your license is eligible for updates. If your current license expires, you will not be able to make future updates to your software.

### License Key Expiration:

Indicates the date when the license for your specific PC will expire. When you generate your license file in TekAMS, you can set the checkout time. Once checkout expires, you will need to check out another license file in TekAMS. If you need to move the license to a different PC, select **Remove License** to remove it from this PC. Next, check the license into TekAMS, then generate a new license file in TekAMS for the new PC.

Manage Licenses ✕

Host ID **KKS-S3B84VHWP5MWS**

To purchase a KickStart license, please visit [www.tek.com/keithley-kickstart](http://www.tek.com/keithley-kickstart).  
For information on accessing purchased licenses and installing licenses, please visit [www.tek.com/products/product-license](http://www.tek.com/products/product-license).

 KickStart Suite	<b>Maintenance</b> Expires at 10/13/2023
 High Resistivity	<b>License Key Expiration</b> Expires at 10/13/2023
	<input checked="" type="checkbox"/> Advanced



Instruments Apps

Suite Apps

- AFG
- Data Logger
- 1.946 DMM
- I-V Characterizer
- Power Supply
- Scope
- Specialty Apps
- Battery Simulator

Manage Licenses

Host ID KKS-S3B84VHWP5MWS

To purchase a KickStart license, please visit [www.tek.com/keithley-kickstart](http://www.tek.com/keithley-kickstart).  
For information on accessing purchased licenses and installing licenses, please visit [www.tek.com/products/product-license](http://www.tek.com/products/product-license).

KickStart Suite	Maintenance
High Resistivity	Expires at 10/13/2023
	License Key Expiration
	Expires at 10/13/2023
	<input checked="" type="checkbox"/> Advanced



**If you purchased a license, select the key icon to manage licenses.**

**Select Install License.**



Instruments Apps

Suite Apps



AFG



Data Logger



DMM



I-V Characterizer



Power Supply

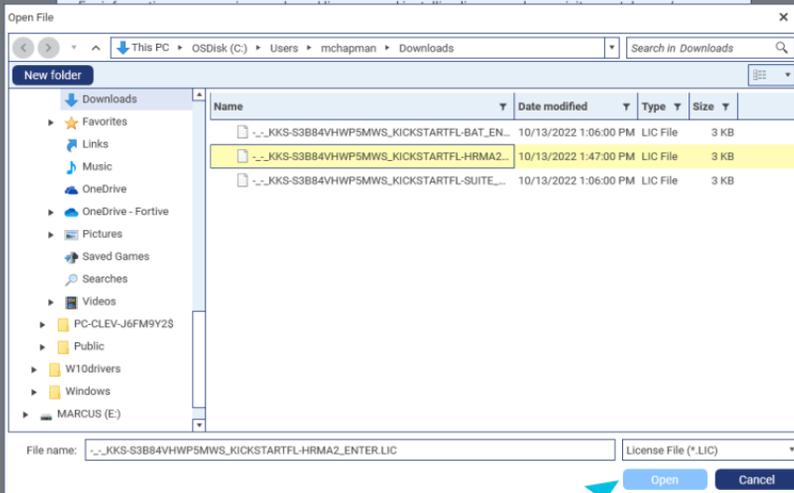


Scope

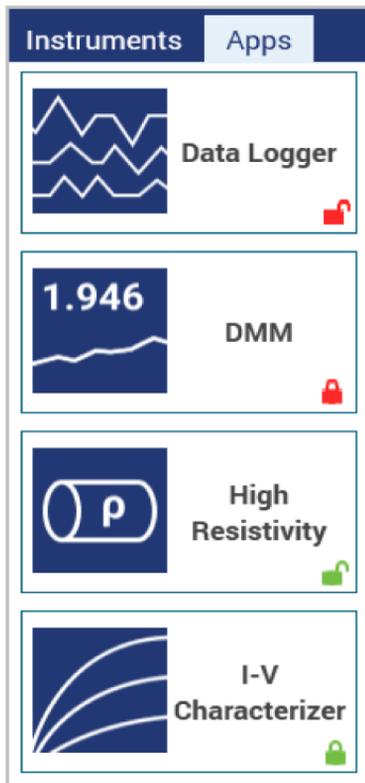
Specialty Apps



Battery Simulator



Select Open to install the license.



When you first open KickStart, the Instruments tab displays available instruments. Select the Apps tab and you will see a lock icon on each App. Note that the following is for informational purposes only, and you will not see both red and green locks.

An open red lock indicates a license or trial that will expire soon. The lock turns red when the license or trial is within 30 days of expiration.

A closed red lock indicates that the license has expired and no trial is available.  
Note that you will only have a 30-day trial for all apps, regardless of which apps are used.

An open green lock indicates that a license is in use.

A closed green lock indicates that a trial or license is available, but has not been activated.



Instruments Apps

Suite Apps

- AFG
- Data Logger
- 1.946 DMM
- I-V Characterizer
- Power Supply**
- Scope

Confirm Trial Start

The Power Supply app requires a valid license to collect data. You can view settings or view previous data without a license. A 30-day trial is available to enable full functionality.

[Start Trial](#) [View Only](#)

**View Only allows you to view the settings of the app without starting a trial.**

**Notice that the Power Supply app has a green closed lock, indicating that a trial is available. Select Start Trial to activate. See the next page for additional trial and license information.**

Instruments Apps

A green lock indicates that a trial (or license) is available.

Hover the cursor over the lock to see information about the trial or license.

Battery Simulator

Trial

Available: 30 days



Instruments Apps

DAQ

DAQ6510

My USB DAQ6510

LAN : 134.63.74.17

---

DMM

DMM7510

My DMM7510

USB

Select an instrument name to change it. Right-click it to view more details.

Instruments are automatically discovered. They appear in the Instruments pane.

Select to open settings and change your color theme.



Shelved Instruments

Advanced Discovery

Enter an IP address.

Simulated Instruments

Model

Name

Add

Advanced



Instruments Apps

DAQ

DAQ6510

My USB DAQ6510

LAN : 134.63.74.17

DMM

DMM7510

My DMM7510

USB

To launch an app, double-click or drag the instrument to the main window. In this example, the Data Logger app has been added.



You can add multiple instruments and select an app for each one. Some apps support multiple instruments.

Select the app, then select OK to run it.

Shelved Instruments

Advanced Discovery

Enter an IP address.

Simulated Instruments

Model

Name

Add

Advanced

This is a Data Logger app example.

The screenshot shows the 'Data Logger-1' application interface. On the left, there are panels for 'Instruments' and 'Apps'. The 'Instruments' panel lists 'My USB DAQ6510' (DAQ) and 'My DMM7510' (DMM). The 'Apps' panel shows 'Shelved Instruments' and 'Advanced Discovery' options. The main area displays a 'Scan' flow diagram with three steps: 'DC Voltage' (channel 101), '2-Wire Resis...' (channel 105), and 'Temperature' (channel 110). A 'Function' dropdown is set to 'None'. On the right, a 'Channels' list shows channels 101 through 115. At the bottom, there are controls for 'Scan Start', 'Channel Start', 'Scan Stop', and 'Interval Between Scans' (0 s). A 'Run' button (play icon) is at the bottom left, and an 'Instruments' button is at the bottom right.

In the Data Logger app, you can create multiple scan groups and also select a group to make changes.

Select Run to start testing.

Select the Instruments button to see instrument information and select multiple instruments in supported apps.

**DAQ**  
My USB DAQ6510  
LAN : 134.63.74.17 In Use

**DMM**  
My DMM7510  
USB

Shelved Instruments

Advanced Discovery  
Enter an IP address:

Simulated Instruments  
Model:   
Name:   
Add

Advanced

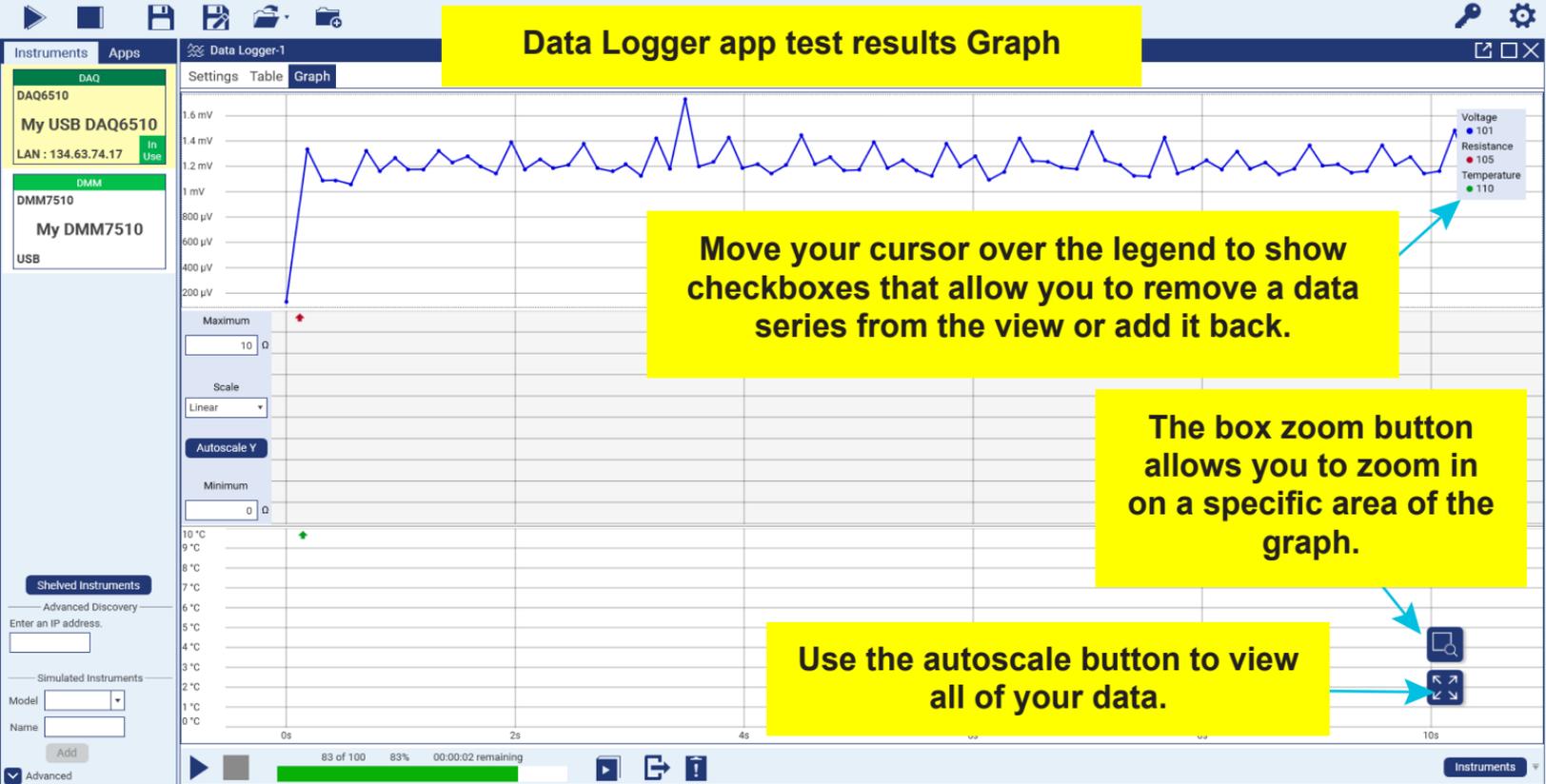
Settings Table Graph

	101	105	110
	Time (s)	Voltage (V)	Temperature (°C)
1	0.000000	130.4924e-3	Overflow
2	183.255e-3	1.333125e-3	Overflow
3	316.697e-3	1.087836e-3	Overflow
4	433.421e-3	1.090553e-3	Overflow
5	566.798e-3	1.057833e-3	Overflow
6	700.186e-3	1.323632e-3	Overflow
7	816.904e-3	1.161639e-3	Overflow
8	950.268e-3	1.263899e-3	Overflow
9	1.066995	1.175119e-3	Overflow
10	1.200366	1.176510e-3	Overflow
11	1.333750	1.320319e-3	Overflow
12	1.450469	1.231441e-3	Overflow
13	1.583839	1.277140e-3	Overflow
14	1.700551	1.197838e-3	Overflow
15	1.833928	1.143120e-3	Overflow
16	1.967314	1.390603e-3	Overflow
17	2.084032	1.176756e-3	Overflow
18	2.217402	1.256484e-3	Overflow
19	2.334122	1.184285e-3	Overflow
20	2.467497	1.213338e-3	Overflow
21	2.600878	1.374660e-3	Overflow
22	2.717605	1.184874e-3	Overflow
23	2.850977	1.159177e-3	Overflow
24	2.967709	1.214419e-3	Overflow
25	3.101079	1.125066e-3	Overflow
26	3.234450	1.143330e-3	Overflow
<b>Min</b>	0.000000	130.4924e-6	Overflow
<b>Max</b>	10.453846	1.729782e-3	Overflow
<b>Mean</b>	5.254503	1.222797e-3	0.000000
<b>StdDev</b>	3.055702	164.0915e-6	0.000000

While running the Data Logger app test, you can view the results in a table or in a graph view.

Rename or hide a column by moving your cursor to the far right and selecting the menu. This functionality is available for any app.

## Data Logger app test results Graph

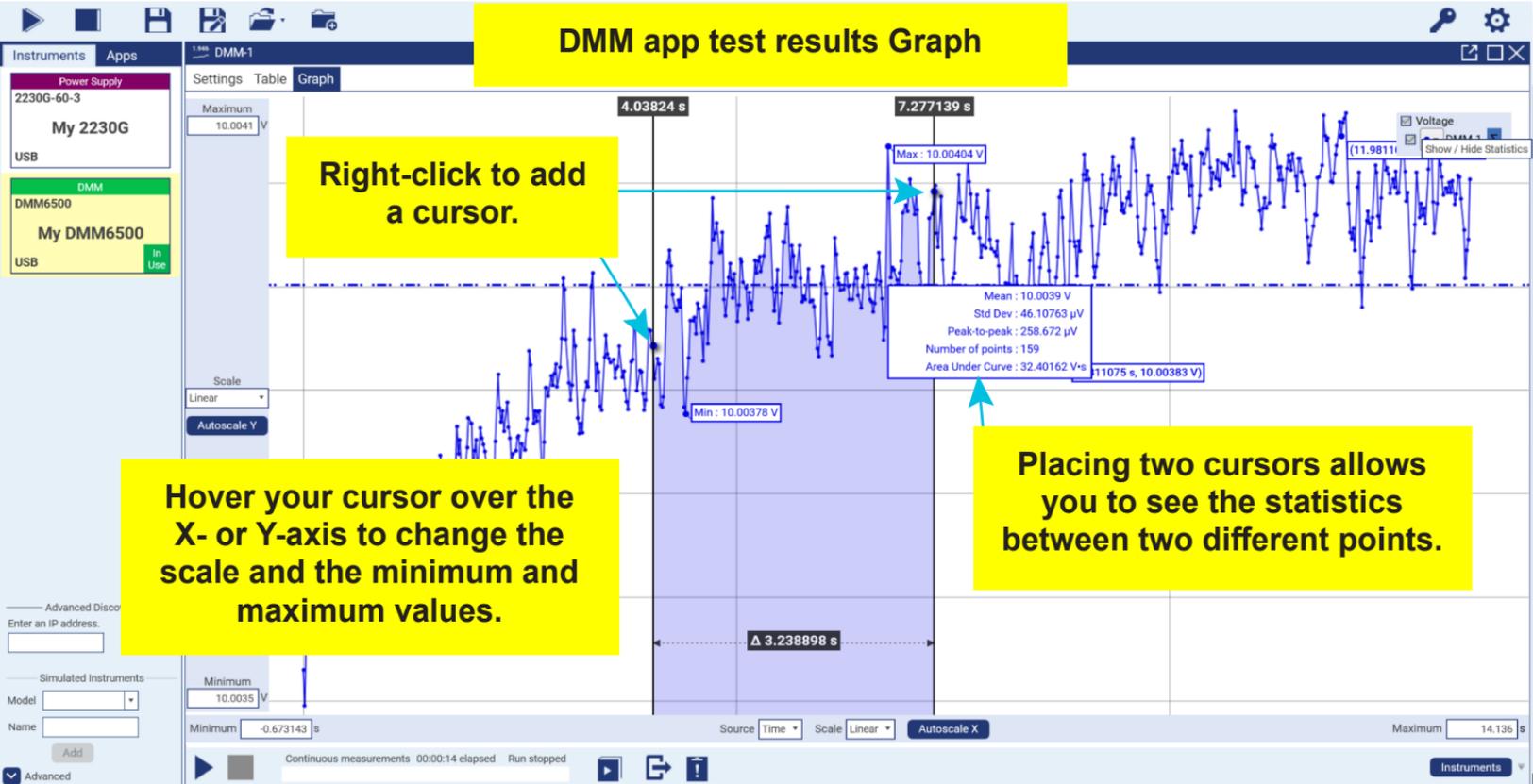


# DMM app test results Graph

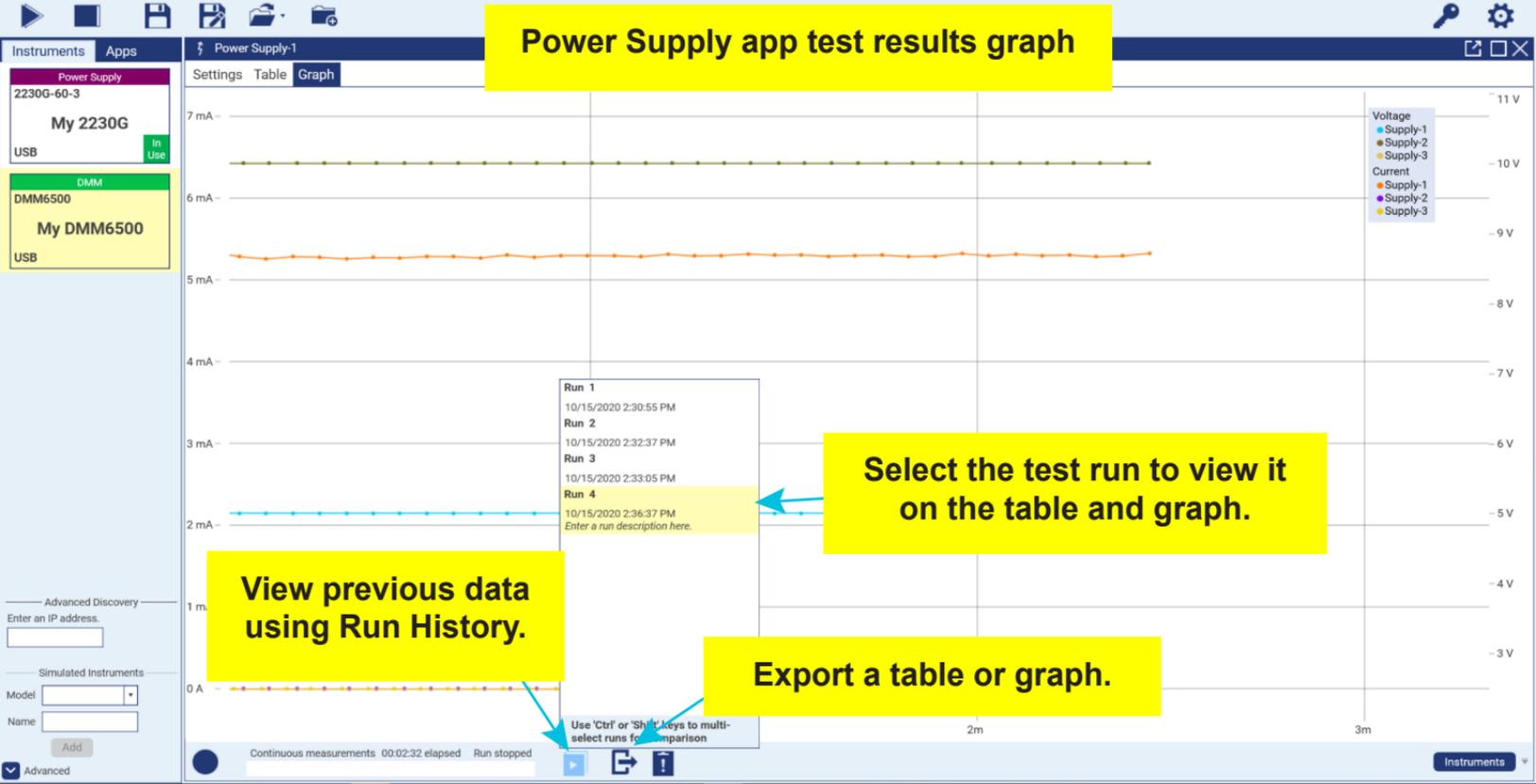
Right-click to add a cursor.

Hover your cursor over the X- or Y-axis to change the scale and the minimum and maximum values.

Placing two cursors allows you to see the statistics between two different points.



# Power Supply app test results graph



**View previous data using Run History.**

**Select the test run to view it on the table and graph.**

**Export a table or graph.**

## Export selected data

When you select the export icon, the Export Data window opens. Here you can choose to export a table, graph, or both.

You can set your test runs to export automatically. Make sure you choose the path for the saved files and create a file name for the Automatically export new runs option.

You can also choose to Export Selected Runs or Export All runs.

Export Data

Export Table

Format

Exclude hidden data

Include test configuration

Include statistics

Export Graph

Color theme  Light  Dark

Resolution

Show gridlines

Automatically export new runs

**Path** C:\Users\estarkey\Documents\KickStart\Projects

**Filename**

**Example** I-V Characterizer-1 Run 1 2022-10-18T14.24.30.png  
I-V Characterizer-1 Run 1 2022-10-18T14.24.30.csv

Export Selected Runs Run 1

Export All Runs Run 1

## Scope app test settings

In the Scope app, select **Waveform** and then open the **Graph** tab to confirm that the correct waveform is retrieved.

Select the mode that relates to your data.

Set when the capture occurs.

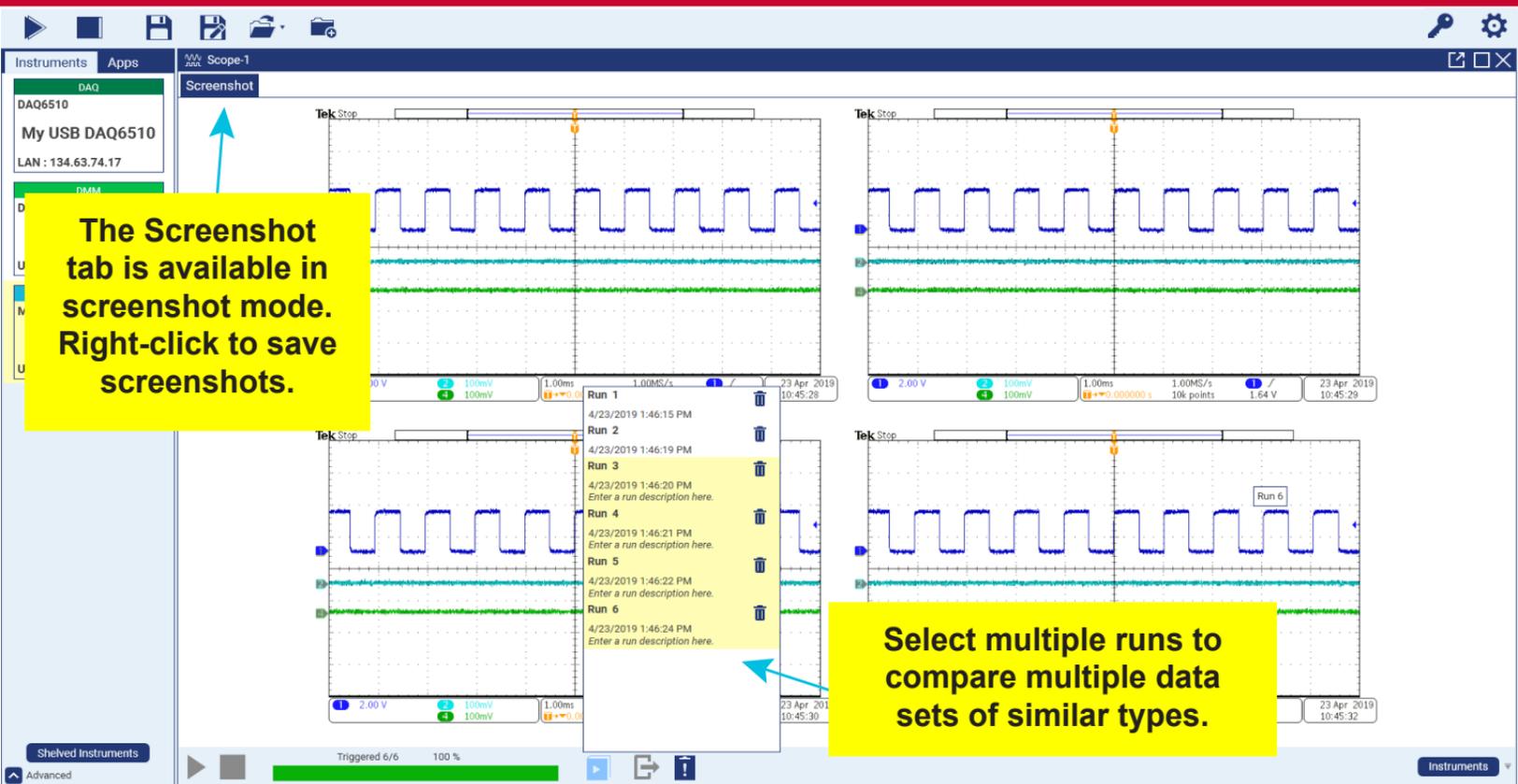
Channel information is shown here. Select **Retrieve Data** to see the data collected on this channel.

Enable or disable channels from your instrument. You are unable to retrieve data from disabled (off) channels.

The screenshot displays the 'Scope-1' application window. The top toolbar contains icons for play, stop, save, and other functions. The left sidebar shows 'Instruments' and 'Apps' tabs, with 'My USB DAQ6510' selected. The main area is divided into several sections:

- Mode:** A vertical sidebar with 'Waveforms' (selected), 'Measurements', and 'Screenshots' buttons.
- Stop Capture:** A dropdown menu set to 'On Acquisition Count' and a 'Count' input field set to '1'.
- Channel Configuration:** A list of four channels:
  - Channel 1:** ON, Retrieve Data . Vertical scale: 1 V/div, Coupling: DC, Probe type: TPP1000.
  - Channel 2:** ON, Retrieve Data . Vertical scale: 100 mV/div, Coupling: DC, Probe type: Other.
  - Channel 3:** OFF, Retrieve Data . Vertical scale: 100 mV/div, Coupling: DC, Probe type: Other.
  - Channel 4:** ON, Retrieve Data . Vertical scale: 100 mV/div, Coupling: DC, Probe type: Other.
- Acquisition Settings:** Acquisition Mode: Stopped, Record Length: 10 k, Horizontal Scale: 1 ms/div, Sample Rate: 1 MHz, Trigger Type: Edge, Trigger Source: CH1.

Additional buttons include 'Save Oscilloscope Setup to File', 'Load Setup File to Oscilloscope', and 'References' and 'Math' checkboxes.



The Screenshot tab is available in screenshot mode. Right-click to save screenshots.

Select multiple runs to compare multiple data sets of similar types.

## Next steps

For more information and to view documentation specific to your instrument, see the Keithley Instruments website: [tek.com/keithley](https://tek.com/keithley).

**Contact information: 1-800-833-9200**

For additional contacts, see <https://www.tek.com/en/contact-tek>

Find more valuable resources at TEK.COM.  
Copyright © 2022, Tektronix. All rights reserved.  
Tektronix products are covered by U.S. and foreign patents, issued and pending. Information in this publication supersedes that in all previously published material. Specification and price change privileges reserved. TEKTRONIX and TEK are registered trademarks of Tektronix, Inc. All other trade names referenced are the service marks, trademarks, or registered trademarks of their respective companies.



KKS-903-01 Rev. L December 2022

