KickStart

Guide

KEITHLEY
A Tektronix Company

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 your instrument's 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 License Manager

The License Manager provides access to KickStart applications and features are to be activated by either a purchased or trial license.

To access the License Manager:

1. Select the settings button ⚙ .

2. Select **Manage Licenses**.

You can also view previously entered licenses and information like dates and times for when the license was entered and checked out and when the license will expire.

KickStart 2.0 is installed with a trial license. Once the trial license expires, you must purchase a license to run tests using an instrument. Without a license, you can only save application settings and view previously generated data.

Entering a license

Manage KickStart 2.0 licenses 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. The email address of the primary user or administrator that manages the license is the one that interfaces with the system. For more information on TekAMS, see www.tek.com/products/product-license.

To generate a license file, you must submit your Host ID. The Host ID is located in the upper left corner of the License Manager window. The Host ID is submitted TekAMS.

Download the license file from TekAMS and transfer it to the computer that will run KickStart 2.0. Using the KickStart License Manager, select **Install License** and browse to the downloaded license file. After the license is entered, the license and its details are viewable in the License Manager.

KickStart - <New Project>

Instruments | Apps

DAQ
DAQ6510

My USB DAQ6510

LAN : 134.63.74.17

DMM
DMM7510

My DMM7510

USB

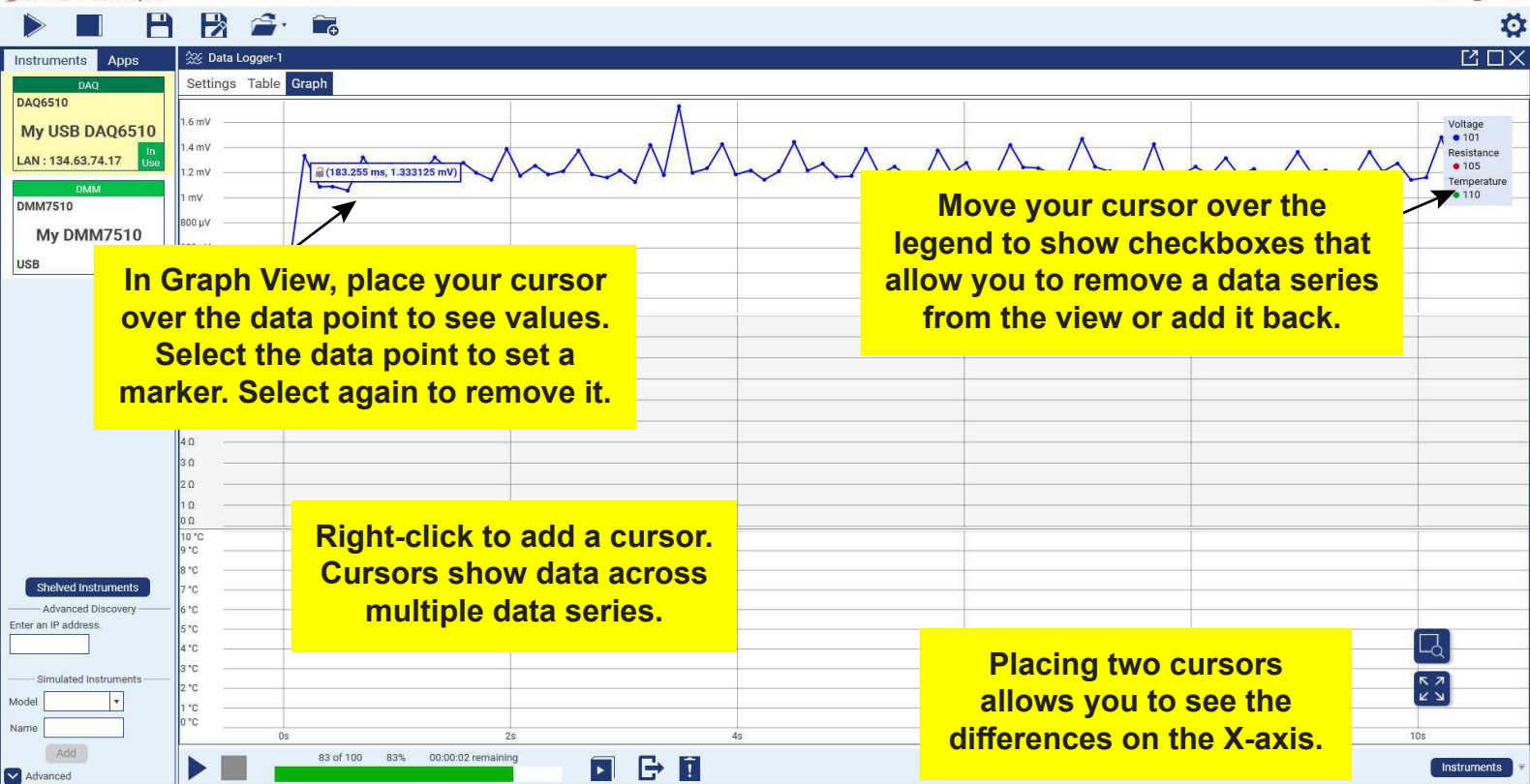Shelved Instruments

Advanced Discovery
Enter an IP address.

Simulated Instruments

Model
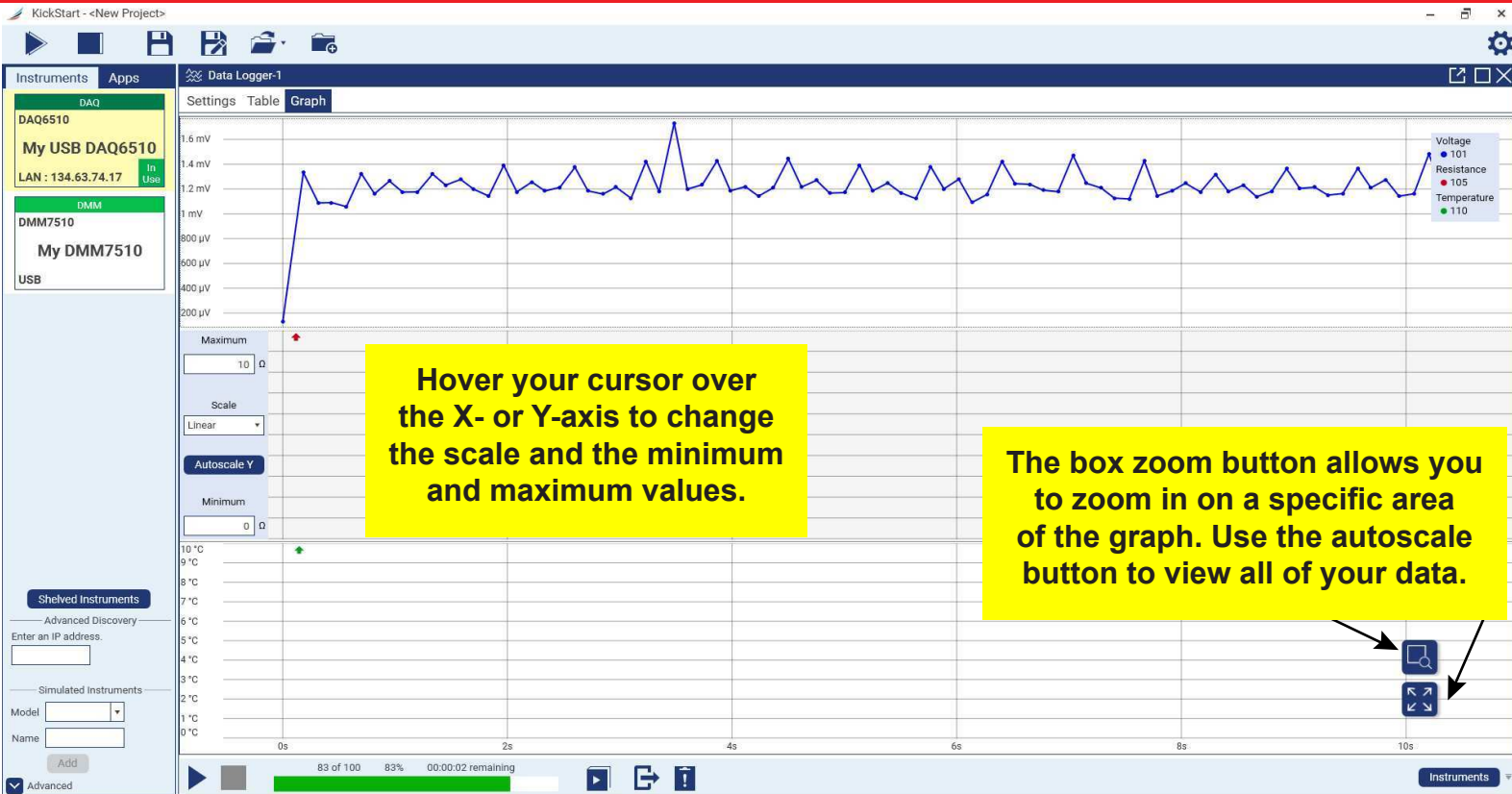
Name

Add

Advanced

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

Instruments are automatically discovered and appear in the instruments pane.

Select to change your color theme and manage licenses.

KickStart - <New Project>

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.

Select an app
Data Logger

DMM
1.946

OK   Cancel

Select the app and select OK to run it.

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

Shelved Instruments

Advanced Discovery
Enter an IP address.

Simulated Instruments
Model
Name
Add

Advanced

KickStart - <New Project>

Instruments | Apps

DAQ
DAQ6510
My USB DAQ6510
LAN : 134.63.74.17 | In Use

DMM
DMM7510
My DMM7510
USB

Shelved Instruments

Advanced Discovery
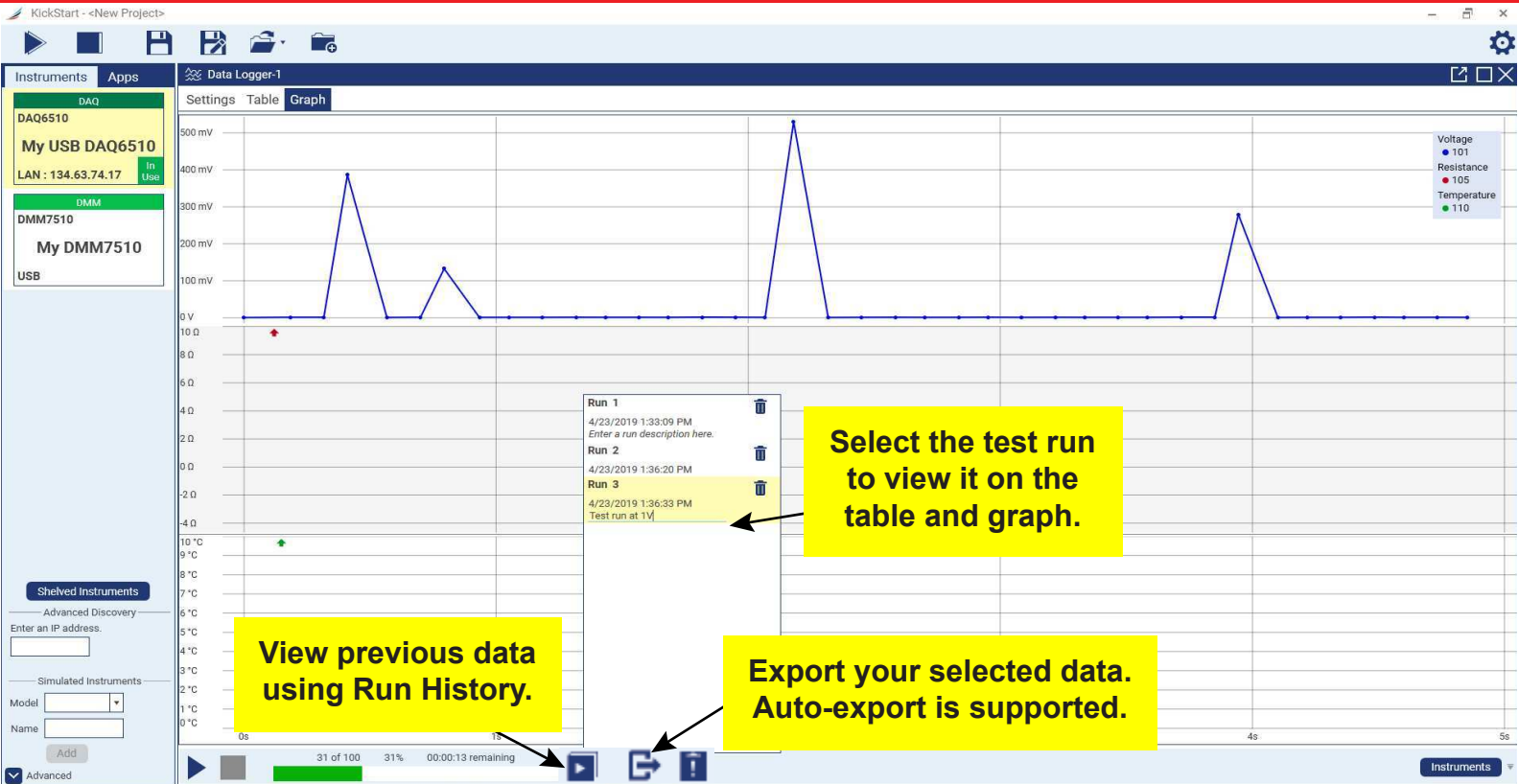Enter an IP address.

Simulated Instruments
Model
Name
Add

☑ Advanced

Data Logger-1

Settings | Table | Graph

Scan

DC Voltage
--
101

2-Wire Resis...
--
105

Temperature
--
110

Channels

☐ 101
☐ 102
☐ 103
☐ 104
☐ 105
☐ 106
☐ 107
☐ 108
☐ 109
☐ 110
☐ 111
☐ 112
☐ 113

In the Data Logger app, you can make more than one scan group and select a group to make changes.

Selecting the Instruments button shows instrument information and allows you to select multiple instruments in supported apps.

Select Run to start testing.

Scan Settings

Scan Start | Immediate ▼
Channel Start | Immediate ▼
Scan Stop | On Scan Cou... ▼ | Scan Count | 10
Interval Between Scans | 0 s

☐ 122

Instruments

www.valuetronics.com

Instruments | Apps

DAQ

DAQ6510

My USB DAQ6510

LAN: 134.63.74.17 | In Use

DMM

DMM7510

My DMM7510

USB

Data Logger-1

Settings | Table | Graph

	101		105	110
	Time (s)	Voltage (V)	Rename channel...	Temperature (°C)
1	0.000000	130.4924e-	Hide	Overflow
2	183.255e-3	1.333125e-3	Overflow	Overflow
3	316.697e-3	1.087836e-3	Overflow	Overflow
4	433.421e-3	1.090553e-3	Overflow	Overflow
5	566.798e-3	1.057833e-3	Overflow	Overflow
6	700.186e-3	1.323632e-3	Overflow	Overflow
7	816.904e-3	1.161639e-3	Overflow	Overflow
8	950.268e-3	1.263899e-3	Overflow	Overflow
9	1.066995	1.175119e-3	Overflow	Overflow
10	1.200366	1.176510e-3	Overflow	Overflow
11	1.333750	1.320319e-3	Overflow	Overflow
12	1.450469	1.231441e-3	Overflow	Overflow
13	1.583839	1.277140e-3	Overflow	Overflow
14	1.700551	1.197838e-3	Overflow	Overflow
15	1.833928	1.143120e-3	Overflow	Overflow
16	1.967314	1.390603e-3	Overflow	Overflow
17	2.084032	1.176756e-3	Overflow	Overflow
18	2.217402	1.256484e-3	Overflow	Overflow
19	2.334122	1.184285e-3	Overflow	Overflow
20	2.467497	1.213338e-3	Overflow	Overflow
21	2.600878	1.374660e-3	Overflow	Overflow
22	2.717605	1.184874e-3	Overflow	Overflow
23	2.850977	1.159177e-3	Overflow	Overflow
24	2.967709	1.214419e-3	Overflow	Overflow
25	3.101079	1.125066e-3	Overflow	Overflow
26			Overflow	Overflow
Min	0.000000	130.4924e-6	Overflow	Overflow
Max	10.453846	1.729782e-3	Overflow	Overflow
Mean	5.254503	1.222797e-3	0.000000	0.00
StdDev	3.055702	164.0915e-6	0.000000	0.00

Shelved Instruments

Advanced Discovery

Enter an IP address.

Simulated Instruments

Model

Name

Add

☑ Advanced

Rename or hide a column by moving your cursor to the far right and selecting the drop-down menu.

83 of 100 | 83% | 00:00:02 remaining

Instruments

KickStart - <New Project>

Instruments | Apps

DAQ
DAQ6510
My USB DAQ6510
LAN : 134.63.74.17   In Use

DMM
DMM7510
My DMM7510
USB

Data Logger-1

Settings Table **Graph**

1.6 mV
1.4 mV
1.2 mV
1 mV
800 µV

🔒 (183.255 ms, 1.333125 mV)

Voltage
● 101
Resistance
● 105
Temperature
● 110

In Graph View, place your cursor over the data point to see values. Select the data point to set a marker. Select again to remove it.

Move your cursor over the legend to show checkboxes that allow you to remove a data series from the view or add it back.

4 Ω
3 Ω
2 Ω
1 Ω
0 Ω
10 °C
9 °C
8 °C
7 °C
6 °C
5 °C
4 °C
3 °C
2 °C
1 °C
0 °C

Right-click to add a cursor. Cursors show data across multiple data series.

Shelved Instruments

Advanced Discovery
Enter an IP address.

Simulated Instruments
Model
Name
Add

☑ Advanced

0s   2s   4s   10s

Placing two cursors allows you to see the differences on the X-axis.

83 of 100   83%   00:00:02 remaining

Instruments ▾

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

The box zoom button allows you to zoom in on a specific area of the graph. Use the autoscale button to view all of your data.

KickStart - <New Project>

Instruments | Apps

DAQ
DAQ6510
My USB DAQ6510
LAN : 134.63.74.17 | In Use

DMM
DMM7510
My DMM7510
USB

Shelved Instruments

Advanced Discovery
Enter an IP address.

Simulated Instruments
Model
Name
Add

Advanced

Data Logger-1

Settings | Table | **Graph**

Voltage
● 101
Resistance
● 105
Temperature
● 110

Run 1
4/23/2019 1:33:09 PM
Enter a run description here.
Run 2
4/23/2019 1:36:20 PM
Run 3
4/23/2019 1:36:33 PM
Test run at 1V

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

View previous data using Run History.

Export your selected data. Auto-export is supported.

31 of 100 | 31% | 00:00:13 remaining

Instruments

www.valuetronics.com

KickStart - <New Project>

Instruments | Apps

DAQ
DAQ6510
My USB DAQ6510

Shelved Instruments
Advanced Discovery
Enter an IP address.

Simulated Instruments
Model
Name
Add
☑ Advanced

Scope-1

Settings | Table | Graph

Mode

Waveforms

Measurements

Screenshots

Save Oscilloscope Setup to File

Load Setup File to Oscilloscope

Wait For Trigger ☐

Stop Capture | On Acquisition Count ▾ | Count | 1

Channel 1 **ON**   Retrieve Data ☑
Label
Vertical scale 1 V/div
Coupling DC
Probe type TPP1000

Channel 2 **ON**   Retrieve Data ☐
Label
Vertical scale 100 mV/div
Coupling DC
Probe type Other

Channel 3 **OFF**
Label
Vertical scale 100 mV/div
Coupling DC
Probe type Other

Channel 4 **ON**   Retrieve Data ☐
Label
Vertical scale 100 mV/div
Coupling DC
Probe type Other

☑ References
☑ Math

Acquisition Settings

Acquisition Mode Stopped   Sample Rate 1 MHz
Record Length 10 k   Trigger Type Edge
Horizontal Scale 1 ms/div   Trigger Source CH1

In the Scope app, select the Graph tab in Waveforms mode to confirm that the correct waveform was 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.

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

www.valuetronics.com

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

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

www.valuetronics.com

Next steps

For more information and to view documentation specific to your instruments, see the Keithley Instruments website, www.tek.com/keithley.

Contact information:

Australia* 1 800 709 465

Austria 00800 2255 4835

Balkans, Israel, South Africa, and other ISE countries +41 52 675 3777

Belgium* 00800 2255 4835

Brazil +55 (11) 3759 7627

Canada 1 800 833 9200

Central East Europe / Baltics +41 52 675 3777

Central Europe / Greece +41 52 675 3777

Denmark +45 80 88 1401

Finland +41 52 675 3777

France* 00800 2255 4835

Germany* 00800 2255 4835

Hong Kong 400 820 5835

India 000 800 650 1835

Indonesia 007 803 601 5249

Italy 00800 2255 4835

Japan 81 (3) 6714 3010

Luxembourg +41 52 675 3777

Malaysia 1 800 22 55835

Mexico, Central/South America, and Caribbean 52 (55) 56 04 50 90

Middle East, Asia, and North Africa +41 52 675 3777

The Netherlands* 00800 2255 4835

New Zealand 0800 800 238

Norway 800 16098

People's Republic of China 400 820 5835

Philippines 1 800 1601 0077

Poland +41 52 675 3777

Portugal 80 08 12370

Republic of Korea +82 2 565 1455

Russia / CIS +7 (495) 6647564

Singapore 800 6011 473

South Africa +41 52 675 3777

Spain* 00800 2255 4835

Sweden* 00800 2255 4835

Switzerland* 00800 2255 4835

Taiwan 886 (2) 2656 6688

Thailand 1 800 011 931

United Kingdom / Ireland* 00800 2255 4835

USA 1 800 833 9200

Vietnam 12060128

* European toll-free number. If not accessible, call: +41 52 675 3777

KEITHLEY
A Tektronix Company

KKS-903-01 Rev. H / June 2019

www.valuetronics.com