KickStart

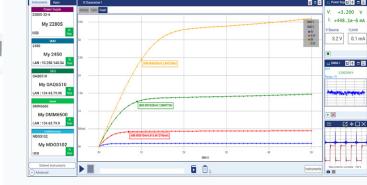




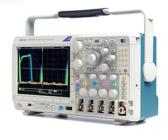
















Accelerate the path to the measurements you want with KickStart Software. KickStart simplifies what you need to know about the instrument so that in just minutes you can take the instrument out of the box and get real data on your device. By plotting data immediately and offering quick statistical summaries of the data in the reading table, KickStart allows you to gather insights faster and make the decisions you need to move on to the next stage of device and product development. KickStart saves you time by facilitating quick replication of tests and comparison of results using convenient export features. With KickStart, you can focus on interpreting the test results so that your team can meet their innovation goals.

Key Features

KickStart Software for the PC enables quick test setup and data visualization when using multiple instruments.

- Save time by automating data collection of millions of readings.
- Set up a multi-instrument test with the ability to independently control up to eight instruments.
- Supports source measure unit (SMU) instruments, DMMs, power supplies, oscilloscopes, dataloggers, and sensitive instruments.
- Replicate tests quickly using saved test configurations.
- Use built-in plotting and comparison tools to quickly discover measurement anomalies and trends.
- Auto-export data in ready-to-use .csv and .xlsx formats for reports and additional analysis.

Applications

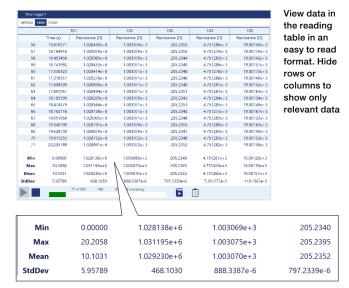
- Device characterization: Characterize materials and discrete components and verify design of electronic modules.
- Datalogging: Reliably log data to the PC; useful for testing device compliance to regulatory or industrial standards.



Minimized Time to Results

Connect your instrument to your PC and have KickStart discover your instrument in seconds. KickStart supports instruments connected using GPIB, LAN, and USB interfaces. With a simple drag of the mouse, launch an app to control and collect data from an instrument. KickStart can collect millions of readings from each instrument, which makes it a great solution for your longterm datalogging needs, for capturing transient events with a digitizing DMM, I-V characterization with SMUs, and now for capturing waveforms with oscilloscopes. KickStart presents the data in tabular and graphical formats. In the table, KickStart presents a statistical summary of the data in each column. You can hide non-essential data, and the statistics automatically update to reflect only data visible in the table. This can be quite useful for applications in which you want to monitor devices after they have reached thermal stabilization.

KickStart provides a test solution even when your tests involve the control of multiple instruments. You can launch and run up to eight apps at the same time. You can see results from multiple instruments in a single easy-to-view format.



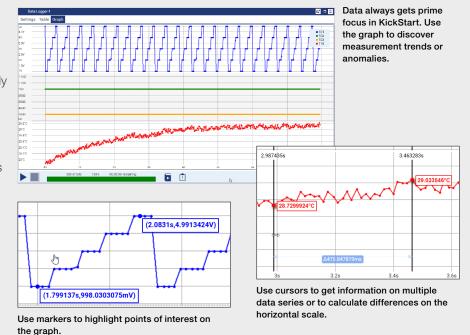
KickStart calculates basic statistics for each column of data visible in the table.



KickStart quickly discovers all connected instruments and allows you to create tests and view data even when instruments are not connected to the PC.

Faster Insights into Data

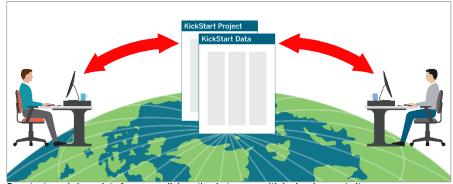
KickStart plots your data immediately so that you can quickly discover anomalies or trends and make the needed decisions to get you to the next phase of development of your material, device, or module. Getting insights quickly is most important, so a large portion of the viewing area is dedicated to the graph. There are built-in tools to compare and overlay data from previous test runs. You can mark or highlight points of interest in the graph and use cursors to view detail on multiple data series at once.





Peace of Mind. Confidence. Reliability.

Proving that your device or module complies with industrial and regulatory standards is an important part of ensuring that your device or electronic module will meet your customer's requirements. Safe archival of test data is essential in compliance testing. KickStart streams and auto-exports data in .csv and .xlsx formats from the instrument to PC storage media, so, even in the event of a power outage, your data-logging data is preserved.



Save tests and share data for easy collaboration between multiple development sites.

Additionally, you can save any test project that you create to re-use later or to share with others. This allows you to replicate tests easily at other locations, which is essential when you work on a global development team.

KickStart even allows you to prepare your tests using simulated instruments so that you are ready to test once the actual instrument arrives. You can quickly swap the actual instrument in your test configuration later. The use of simulated instruments also allows offline viewing of the data and test setup.

Available KickStart Apps

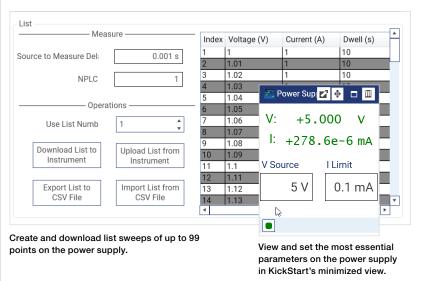
KICKSTARTFL-BASE includes five apps to control your SourceMeter SMU instrument, DMM, data logger, power supply, or oscilloscope.



Power Supply App

This app simplifies supplying power to your device or system.

- · Quickly set up automated tests using bias or list sweep mode.
- Interactively control bias conditions while monitoring measurements on another instrument.
- Use along with the Precision Multimeter App for an application such as power consumption analysis or monitoring load current stability.
- Supports Keithley 2280S-32-6 and 22380S-60-3 Precision
 Measurement DC Power Supplies. Also supports 2281S-20-6 as a power supply only.

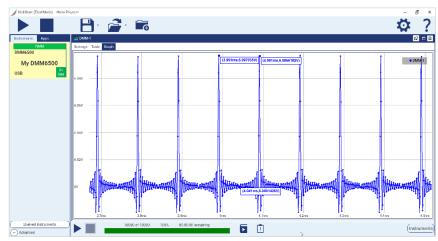


Precision Digital Multimeter App

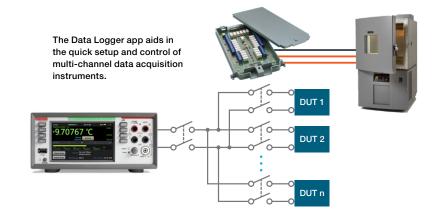
This app affords you a simple way to log data using your Keithley DMM or sensitive measurement instrument.

- Automate long-term datalogging.
- Plot and inspect waveforms from the digitizer built into the DMM.
- Trigger digitizer on digital events or programmed analog levels.
- Continuous data streaming for digitizer operation using DMM7510 and DMM6500.
- Supports Keithley DMM7510
 7½-Digit and DMM6500
 6½-Digit DMMs and DAQ6510
 Data Acquisition and Logging Multimeter System.
- Supports Keithley DMM7510
 7½-Digit and DMM6500
 6½-Digit DMMs, DAQ6510
 Data Acquisition and Logging
 Multimeter System, 2001, 2010, 2100, and 2110 DMMs, 6485 and 6487 Picoammeters, and 6514

 Electrometer.



Capture waveforms with the DMM6500 Digitizing DMM using KickStart's Precision Multimeter App.

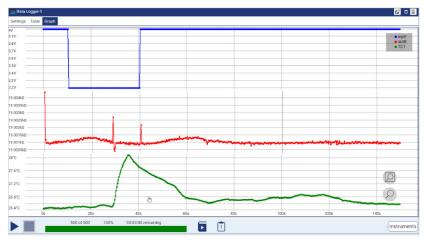




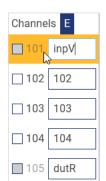
Data Logger App

Use the KickStart Data Logger App to set up and control your multi-channel data acquisition instrument. This app is designed to help you configure all your channels very quickly and even validate your connections during test configuration. It allows you to set up multiple channels with the same configuration but give each channel a meaningful label so that you can quickly scan your results and grab the information you need. Configure pass/fail limits for each channel in order to set alarm conditions and obtain quick visual verification of test results.

- Stream millions of readings to PC storage media for safe data archival.
- View multiple measurement functions in a single data window using stacked graphs.
- Plot measurement data versus another channel or versus time.
- Export data in ready-to-use formats for reports and additional analysis even while the test is running.
- Supports Keithley DAQ6510, DMM6500 (with scan card), 2700, 2701, 2750, and 3706A.



Plot and view multiple channels in a single graph with KickStart's Data Logger App.



Create personalized labels for each channel of your data logging switch card.

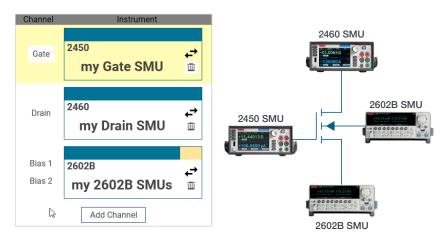
I-V Characterizer App

Use the I-V Characterizer App to perform current vs. voltage (I-V) test on a variety of materials, two-terminal and multi-terminal semiconductor devices, solar cells, and much more. You can configure each SMU for a variety of bias and sweep sourcing operations, including linear, log, list, and dual sweeps.

- Configure and control up to four SourceMeter SMU instruments with independent sweeps or multi-level sweeps.
- Differentiate SMU instrument channels and their measurement data using labels that are relevant to your device or module.
- Use built-in comparison tools to compare and overlay multiple test runs in a single graph.
- Create tests by mixing any of these SMU instruments: Series 2400, Series 2400 Graphical, Series 2600B, 2606B, 2657A, and 6430 SourceMeter SMU instruments.



Create current vs. voltage characteristics for 2-terminal, 3-terminal, and 4-terminal devices.



Characterize devices using up to four of Keithley's SourceMeter SMU instruments.



Scope App

Use the Scope app for data capture and datalogging of waveforms, measurements, and screenshots. This app offers three modes of operation.

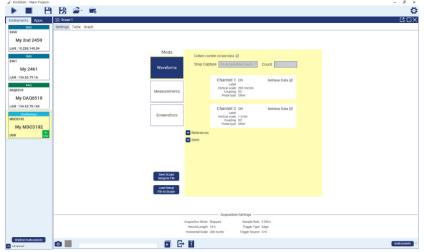
- Waveforms Mode: KickStart retrieves the x-y data of each desired channel from the scope.
 It lists the data in the Table tab and a data plot in the Graph tab for the user to verify that the data retrieved is desired. Only data from analog channels is retrieved.
- Measurements Mode: The user can select up to 8 measurements to retrieve from the scope. The measurements are made by the oscilloscope and logged into the KickStart Table. The user can use the Graph tab in KickStart to view the measurement data and easily note trends or spot anomalies.
- Screenshot Mode: Capture the screen image of the oscilloscope.

The Scope app supports data retrieval from analog channels from the supported Tektronix scopes. KickStart can also retrieve data from Reference Channels and Math Channels. The Scope app will either capture present data (without waiting for a trigger) or will arm the scope to wait for a trigger, stop the capture to gather data once scope has been triggered and re-arm scope to wait for next trigger after data is captured.

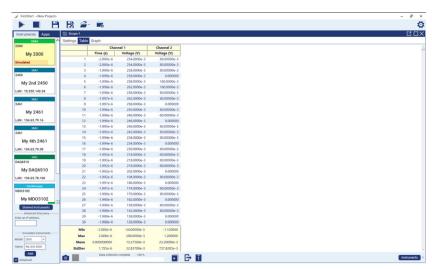
 Supports Tektronix DPO3k, DPO4k, MDO3k, MDO4k, MSO3k, MSO4k scope models.



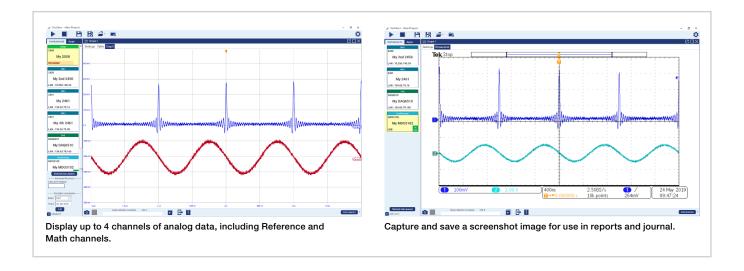
Saved screen capture of scope with KickStart.



The setup window enables the selection of the Waveforms, Measurements, or Screenshots mode.



Data collected from the scope can be displayed in Table View with statistics.



Ordering Information

KICKSTARTFL-BASE

Floating license version for all base KickStart apps.

Download the latest version of KickStart today from www.tek.com/keithley-kickstart

KickStart allows you to create tests and view, manipulate and export data without a license. To communicate with and control an instrument, KickStart requires a license. KickStart installs with a one-time 60-day trial license. Visit tek.com to get a quote for KICKSTARTFL-BASE, a floating license that unlocks all the base KickStart apps, A floating license allows selected users to manage transfer of individual license files to different PCs. License management is done through the Tektronix Asset Management System (TekAMS).

For more info on TekAMS, visit https://www.tek.com/products/product-license. Each valid license entitles you to unlimited support by Tektronix' worldwide technical support centers and field applications engineers.

Learn More about KickStart

Visit www.tek.com/keithley-kickstart for the latest information about KickStart.

For questions, please visit Tektronix Technical Forums at http://forum.tek.com or contact your local Tektronix sales office noted on the back of this datasheet.

Recommended System Requirements

- CPU: Dual-core processor
 2 GHz or better
- Memory: 8GB RAM
- Disk Drive: 8GB of free space
- Windows 10, 8, 7 64-bit
- Instrument communication interfaces: USB, GPIB, LAN
- Display resolution: Minimum 1920×1080 recommended

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