

KickStart Instrument Control Software

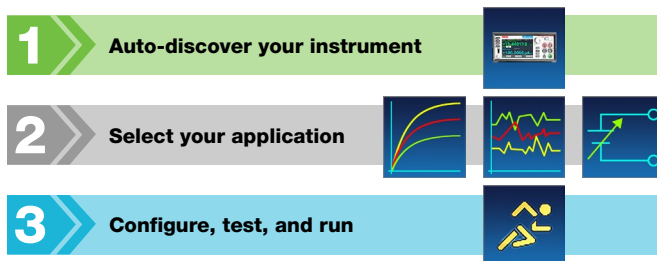
Datasheet



Making measurements is easy with KickStart. Characterize your devices and materials quickly and easily without programming. Visualize real-time results in graphical and tabular formats. Export data tables or graphs for quick reporting or for additional analysis in a software environment such as Microsoft Excel. Save test configurations to reliably reproduce test setups and generate new data at a later time.

The base version of Kickstart is FREE and is compatible with Keithley's source measure unit (SMU) instruments, DMMs, data acquisition systems, and power supplies. An optional app for KickStart is available for performing insulation resistivity measurements with the Keithley 6517B Electrometer.

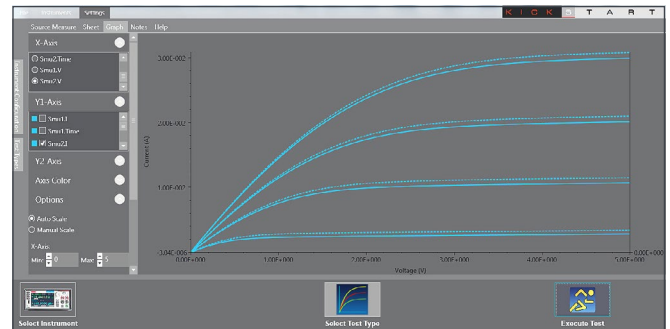
Three Steps to Get Running



Key Features

- Built-in I-V characterizer, datalogger, and precision DC power applications
- Optional high resistivity measurement application that complies with ASTM D257 standard
- Display data in graphical or tabular view
- Save data in Excel or CSV formats

Easy I-V Characterization Using SourceMeter® SMU Instruments



MOSFET Ids-Vds plot versus gate voltages, using two 2450 SourceMeter SMU instruments. KickStart even allows appending data to compare two different datasets.

Combine KickStart's I-V characterizer application with Keithley's SourceMeter SMU Instruments to perform current vs. voltage (I-V) testing quickly and easily on a variety of materials, two-terminal and multi-terminal semiconductor devices, solar cells, and much more.

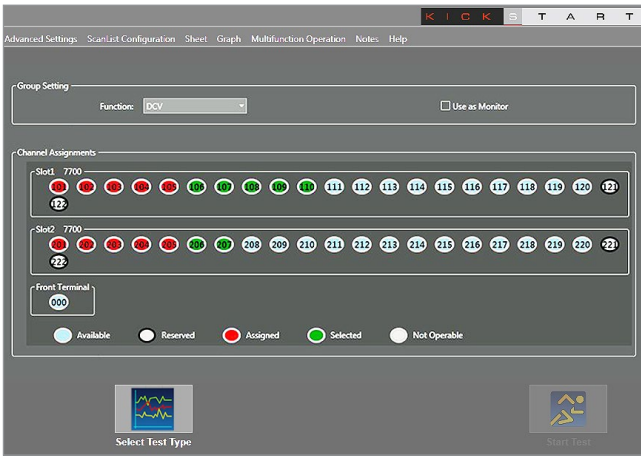
The I-V Characterizer app supports the following SMU instruments:

- Series 2450 Graphical Series SourceMeter Instruments
- Series 2400 SourceMeter SMU instrument (non-graphical)
- Series 2600A and Series 2600B System SourceMeter SMU Instruments
- Model 6430 Sub-femtoamp Remote SourceMeter SMU instrument

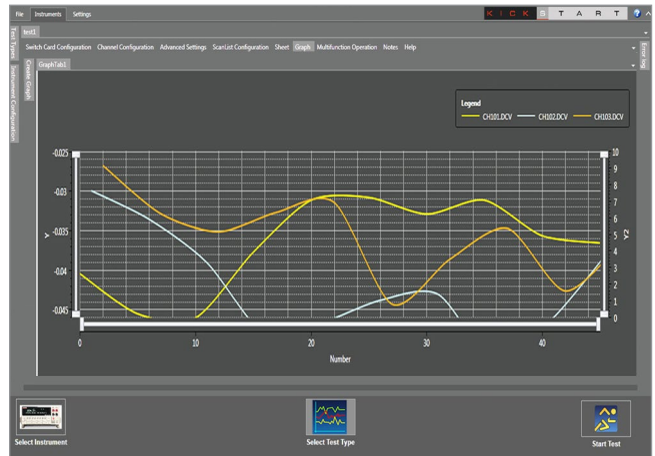
With select models that have TSP-Link capability, the I-V characterizer application can control up to four SourceMeter SMU instruments linked together. You can configure each SMU instrument for a variety of bias and sweep sourcing operations, including linear, log, list, and dual sweeps and DC bias levels. When using the 2461 Graphical SMU Instrument, you can program the SMU instrument to output pulses and digitize measurements. Whether the application involves sourcing voltage or current, the I-V characterizer gives you the freedom to measure voltage, current, and even resistance — all at the same time. Time-stamping support allows plotting I-V curves as a function of time.

Data Acquisition and Logging

Use the datalogger application to set up, program, and control the 80-channel 2700, the web-enabled 2701, or the 200-channel 2750 Integra Series Multimeter/Switch Systems. All three models integrate a 6½-digit precision multimeter, instrument-grade switching, and control in a compact package. Within minutes you can configure channels, set parameters such as limits and triggers sources, and view results in real time. The datalogger application also supports the Chinese language.



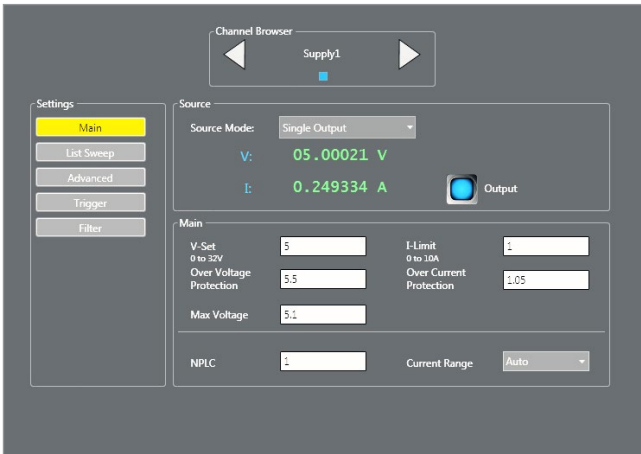
Point and click interface simplifies setup of data channel and multimeter acquisition configurations.



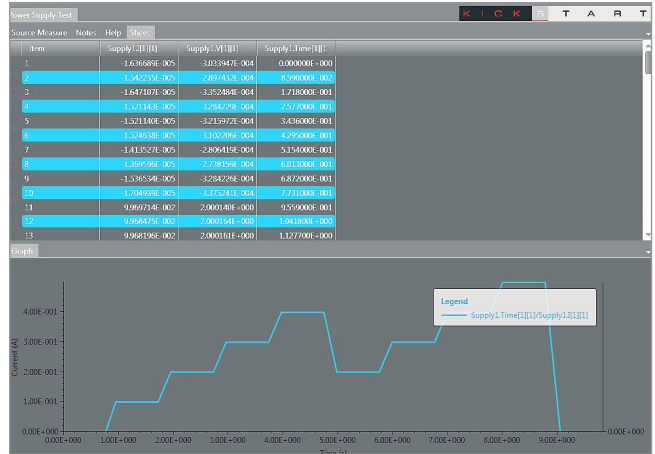
Full complement of display options including graphing and tabular modes. Graphing mode lets you select the channels you want to display.

Controlling Series 2280S Precision Measurement Power Supplies

KickStart's precision DC power application simplifies supplying power to a device or system. You can control the operation of a Series 2280S Precision Measurement Power Supply from your PC and access the extensive features these instruments offer. For example, you can quickly setup automated tests to monitor power consumption over a device's operating states or monitor the stability of a DUT's load current. Use the List Sweep function to test a device's performance automatically over its operating range and monitor device response to voltage transitions.



Configure your power supply output, measurement, and protection parameters. Setup a list sweep of voltage values and a control mode to apply a series of voltages to a DUT.

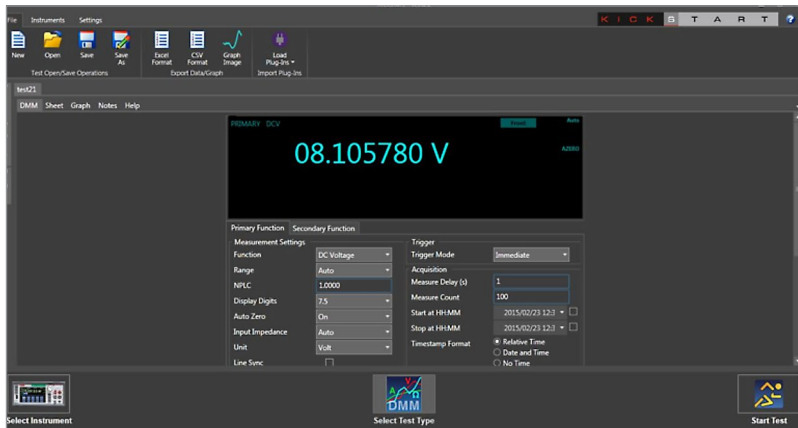


Plot output voltage, load current, or both, and display data in a tabular format. Use the docking tab feature to customize your display window.

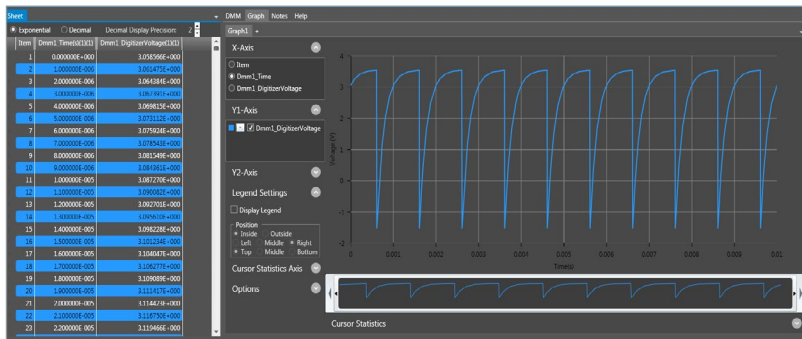
High Accuracy Waveform Capture Using the DMM7510 Multimeter

KickStart's precision multimeter application allows simple PC configuration and control of the DMM7510:

- Log high accuracy 7½-digit measurements
- Plot waveforms sampled at up to 1 MSamples /sec.
- Trigger on digital events or programmable analog levels
- Display pre-trigger data as well as post-trigger data.



Drop down boxes and readout provide simple DMM configuration and control.



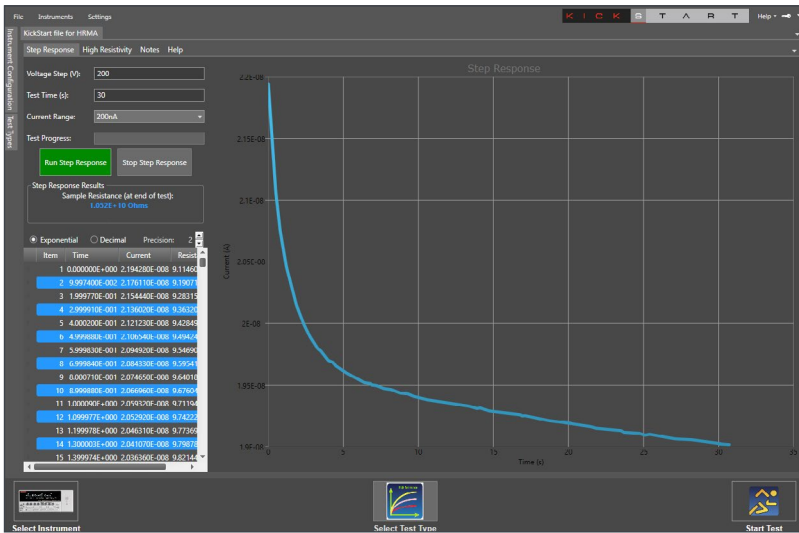
View measurement results in spreadsheet or graphical views. Use the docking tab feature to customize your display window.

Accurate and Reliable Insulation Resistivity Measurements using High Resistivity Measurement Application

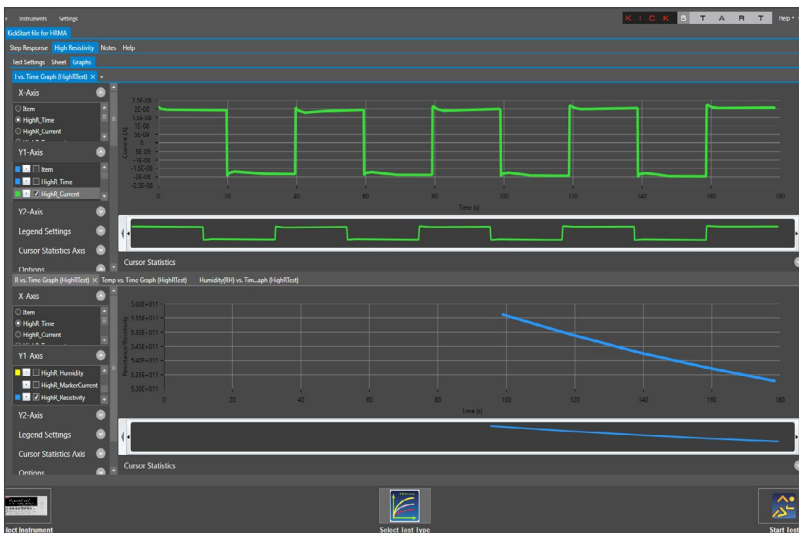
KickStart's high resistivity measurement application allows for reliable measurement of resistivity of insulators according to ASTM D257 standard. This app is designed for use with Keithley's 6517B Electrometer/High Resistance Meter and 8009 Resistivity Test Fixture, which is the laboratory standard test setup for volume and surface resistivity of insulators. This app requires a free 30 day trial license or the KICKSTARTFL-HRMA floating license.

This app requires installation of KickStart version 1.9 or later. Use this application to:

- Perform a step response in order to determine an electricification time appropriate to the material's time constant
- Observe resistivity dependency on temperature and relative humidity using optional 6517-TP and 6517-RH probes
- Use alternating polarity technique to eliminate inherent background currents for the most accurate resistivity measurements



Step Response.



High Resistivity.

Download Information

Free download of KickStart Instrument Control Software at www.tek.com/keithley-kickstart
Try High Resistivity Measurement Application Free for 30 days.

Instruments Supported

Series 2280S Precision Measurement, Low Noise, Programmable DC Power Supplies

Series 2400 SourceMeter® SMU Instruments: 2400, 2401, 2410, 2420, 2425, 2430, 2440

2450, 2460, 2461 Graphical Series SourceMeter® SMU Instrument

Series 2600B System SourceMeter SMU Instruments: 2601B, 2602B, 2604B, 2611B, 2612B, 2614B, 2634B, 2635B, 2636B

2700, 2701, and 2750 (Integra Series) Multimeter/Switch Systems

6430 Remote Sub-femtoamp SourceMeter SMU Instrument

6517B Electrometer/High Resistance Meter (requires KICKSTARTFL-HRMA license)

DMM7510 7½-Digit Graphical Sampling Multimeter

PC Requirements

Hardware

Processor: 1GHz (2GHz or greater recommended)

RAM: 1GB (32-bit), 2GB (64-bit) (4GB or greater recommended)

Operating System

Windows 10, 8, and 7 (32-bit, 64-bit)

Windows XP support available up to KickStart version 1.7

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