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TECHNICAL OVERVIEW

PX0109A Quick I/V Measurement Software for PXIe Precision SMU



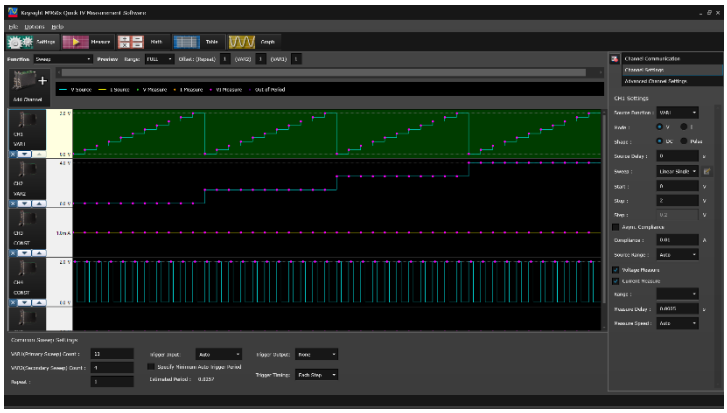
KEYSIGHT TECHNOLOGIES

Essential and Powerful Software Tool to Control the PXIe Precision SMU

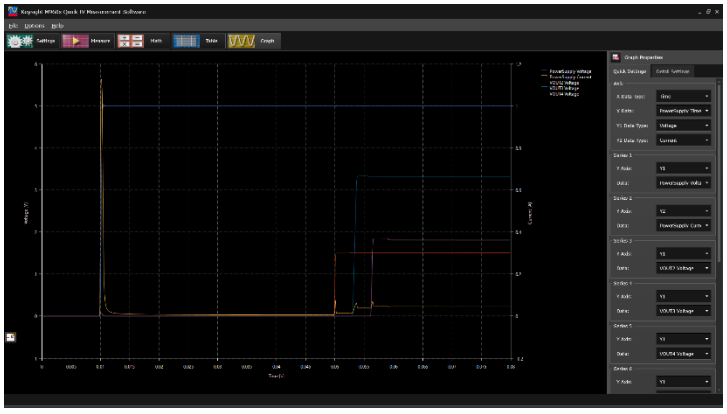
The Keysight PX0109A Quick I/V Measurement Software for PXIe Precision SMU has powerful measurement capabilities to control the M9601A, M9602A, M9603A, M9614A and M9615A. It supports a variety of functions such as a sweep measurement, a sampling measurement, graphical display functions and the ability to save test results into CSV files, which makes it easy to quickly setup and perform current-voltage (IV) measurements and to display the measurement data in tables and graphs without the need to program. It is licensed based and the licenses are sold as node-locked, floating, transportable and USB portable.

The PX0109A Quick I/V also allows you to control up to ten SMU channels so that you can measure devices or circuits requiring more than two SMU channels for characterization, verification, or test. In addition, the PX0109A Quick I/V has the capability to make not only primary sweep measurements but also measurements where a second terminal is swept, making it easy to generate a variety of IV curves.

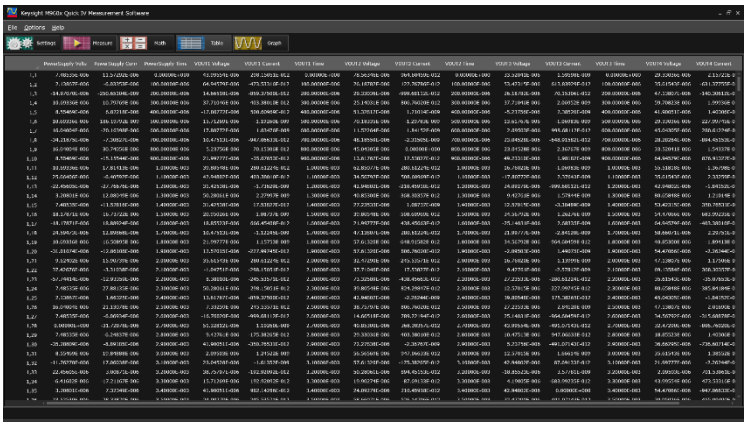
The setup menu allows you to specify and preview the settings on up to ten SMU channels before you perform a measurement, giving you the flexibility and ease of setting up the SMU channels.



The built-in graph function supports both basic and advanced features (such as the family of curves shown here).



Numerical measurement results can be viewed in a table format, and this data can easily be copied into Excel for further analysis.



For free 30-day trials, visit: www.keysight.com/find/px0109a

Supported Models

M9601A PXIe Precision Source/Measure Unit, 1.25 MSa/s, 10 fA, 210 V, 315 mA

 www.keysight.com/find/m9601a	The Keysight M9601A is a PXIe precision source/measure unit (SMU) with the capability to source and measure both voltage and current. It covers currents from 10 fA to 315 mA, and voltages from 500 nV to 210 V, and has the capability to make precise measurements from DC to pulsed down to 20 µs pulse width with the sampling rate up to 1.25 MSa/s. That makes the M9601A ideal for a wide variety of current versus voltage (IV) measurement tasks that require both high resolution and accuracy. You now can accurately perform characterization, parametric/reliability tests of semiconductors, active/passive components, and general electronic devices.

M9602/03A PXIe Precision Source/Measure Unit, 15 MSa/s, 1 pA/100 fA, 60 V, 3.5 A DC/10.5 A pulse

 www.keysight.com/find/m9602a www.keysight.com/find/m9603a	The Keysight M9602A and M9603A are PXIe precision source/measure units (SMUs) featuring best-in-their-class narrow pulse width as narrow as 10 µs, a fast sampling rate of up to 15 MSa/s and a wide output range. They enable dynamic or pulsed measurements for broad emerging applications such as vertical cavity surface emitting laser (VCSEL) optical devices, integrated circuit (IC) testing across a wide output range of up to 60 V/3.5 A DC/10.5 A pulse, and high resolution up to 6µV/100 fA. In addition, its low noise performance of as low as 400 fArms at 1 power line cycle (PLC) enables measurements with shorter aperture times and its seamless current measurement ranging function eliminates range change time, which improves test throughput.

M9614/15A PXIe 5-Channel Precision Source / Measure Units, 500 kSa/s, 100 pA/10 pA, 30 V, 500 mA

 www.keysight.com/find/m9614a www.keysight.com/find/m9615a	The Keysight M9614A and M9615A are PXIe five-channel precision source / measure units (SMUs). They support accurate measurement up to 30 V / 500 mA with resolution down to 6 uV / 10 pA. While a PXIe SMU improves channel density compared with a benchtop SMU, the M9614A and M9615A enable higher channel density in the same footprint. They also provide a wider output range than a conventional PXIe four-channel SMU at a lower cost per channel. Pulsed and sampling capabilities allow the M9614A and M9615A to perform a variety of measurements, from DC to pulsed measurements, with pulse width down to 100 µs at a sampling rate of 500 kSa/s. Their seamless current measurement ranging function reduces test duration by eliminating the time it takes to change the range and expands the dynamic range to cover four measurement ranges. These capabilities make the M9614A and M9615A suitable for applications that require high channel density, such as semiconductor reliability testing and IC tests.

License Terms, License Types, and Support Subscriptions

You can now choose your license type (node-locked (fixed), transportable, floating (single site, single region, worldwide), or USB portable), license term (subscription), and then choose the KeysightCare Software Support subscription period that best meets your needs. See more details below.

License terms

License term	Description
Subscription	Licenses can be used through the term of the subscription (36 months).

License types

License type	Description
Node-locked	License can be used on one specified instrument/computer
Transportable	License can be used on one instrument/computer at a time but may be transferred to another using Keysight Software Manager (internet connection required).
USB Portable	License can be used on one instrument/computer at a time but can be transferred to another using a certified USB dongle (available for additional purchase, Keysight part number PX0100-D10).
Floating	Networked instruments/computers can access a license from a server one at a time. Multiple licenses may be purchased for concurrent usage. Three types of floating license are available: **Single Site**: 1- mile radius from the server; **Single Region**[1]: Americas; Europe; Asia; **Worldwide** (export restriction identified in End User License Agreement (EULA))

1. Americas (North, Central, and South America, Canada); Europe (European Continent, Middle Eastern Europe, Africa, India); Asia (North and South Asia Pacific Countries, China, Taiwan, Japan)

KeysightCare Software Support subscriptions

Subscription	Description
KeysightCare Software Support	Software subscription licenses include software support through the term of the license.

Ordering Information

Product	License type	License term (36 months Subscription) License & support
PX0109A	Node-locked (fixed)	R-X45-001-Y
	Transportable	R-X45-004-Y
	USB Portable[1]	R-X45-005-Y
	Floating (single site)	R-X45-002-Y
	Floating (single region)	R-X45-006-Y
	Floating (worldwide)	R-X45-010-Y

1. USB portable license requires a certified USB dongle (available for additional purchase. Keysight part number PX0100-D10)

System and Installation Requirements

Computer operating system	
Operating system	Windows 10 (64-bit) Pro, Windows 10 (64-bit) Enterprise
Supporting language	English (US)
.NET Framework	Microsoft .NET, Framework 4.7.1
IO Libraries	Keysight IO Libraries Suite 2019 or later
PathWave License Manager	2.4.1 or later
Interfaces	PXIe

Learn more at: www.keysight.com

For more information on Keysight Technologies' products, applications, or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus

KEYSIGHT TECHNOLOGIES

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