



Metrics ICS General Information

Metrics ICS

Version 4.5

Table of Contents

What’s New – Metrics ICS 4.5 3

 General User Interface Improvements 3

 Updated Drivers 3

 Deprecated VBScript Drivers and Algorithms 4

Instrument Support..... 4

Instrument Support cont' 5

Metrics ICS 4.5 System Requirements 6

General Information

This Guide provides basic information regarding the Metrics ICS software. For additional information please refer to the other manuals installed, including the Getting Started Guide, Migration Guide, and Technical Reference.

What's New – Metrics ICS 4.5

General User Interface Improvements

- Added auto-column width for Data View spreadsheet windows.
- Updated File menu “Save As”, dialogs boxes to display the “Save” button instead of “Open”.
- Added License # field to Help menu “About” dialog box to display current license number being read from the USB security key to aid in technical support and troubleshooting.
- Increased width of GPIB “Communications Log” window and increased length of log file to aid in technical support and troubleshooting communication problems.

Updated Drivers

- Tektronix 370/A/B and 371/A/B; re-added new versions of the Tek37x smart drivers to control the following pieces of test and measurement hardware.
- Added B1514A MCSMU (Medium Current Source Measure Unit) module support for Keysight B1500A Semiconductor Device Analyzer.
- Added polling support for B1525A HPPGU (High Power Pulse Generator Unit) and B1530A (WGFMU) to properly display slot numbers in B1500A mainframes with these units installed. Note: There is no driver support in MTICS for these pulse generators, but will be added to MTICV Pulse Generator Library in the future.
- Enhanced B1520A MFCMU module to fully support SCCU module allowing for simple switching between IV and CV measurements.
- Enhanced Step Generator point and step calculation in TEK 370 / TEK 371 driver to set max allowed voltage.
- Enhanced KI4200 driver by adding “limited auto-range” and “fixed ranging” modes.

Deprecated VBScript Drivers and Algorithms

Metrics has removed support for VBScript that used to control the following:

- Tektronix 370/A/B and 371/A/B
- CV algorithms have been moved to Metrics ICV – IDE option

Instrument Support

<i>Model</i>	<i>Description</i>
HP 4140B	pA Meter/DC Voltage Source
Keysight(HP) 4142B	Modular DC Source/Monitor
HP 4145A/B	Semiconductor Parameter Analyzer
Keysight(HP) 4155A/B/C	Semiconductor Parameter Analyzer
Keysight(HP) 4156A/B/C	Semiconductor Parameter Analyzer
Keysight E5270B	8-slot Precision Measurement Mainframe
Keysight 5272A	2-slot High Speed Source Monitor Unit
Keysight 5273A	2-slot High Speed Source Monitor Unit
Keysight E5260A	8-slot High Speed Measurement Mainframe
Keysight 5262A	2-slot High Speed Source Monitor Unit
Keysight 5263A	2-slot High Speed Source Monitor Unit
Keysight B1500A	Semiconductor Device Analyzer
B1510A	High Power Source/Monitor Unit (HPSMU)
B1511A	Medium Power Source/Monitor Units (MPSMU)
B1514A	50uS Pulse Medium Current Source Measure Unit (MCSMU)
B1517A	High Resolution Source/Monitor Unit (HRSMU)
Keysight B1505A	Power Device Analyzer/Curve Tracer
B1512A	High Current Source /Monitor (HCSMU, DHCSMU)
B1513A	High Voltage Source/Monitor (HVSMU)
N1258A	Module selector
Keysight B2900A	Precision Source/Measure Unit
B2901A	100 fA Single Channel Precision Source/Measure Unit
B2902A	100 fA Dual Channel Precision Source/Measure Unit
B2911A	10 fA Single Channel Precision Source/Measure Unit
B2912A	10 fA Dual Channel Precision Source/Measure Unit
HP 4275A	10 Hz-10 MHz Multi-frequency LCR Meter
HP 4280A	1 MHz C-Meter/CV Plotter
Keysight(HP) 4284A	20 Hz-1 MHz Precision LCR Meter
Keysight(HP) 4285A	75 Hz-30 MHz Precision LCR Meter
Keysight E4980A	20 Hz-2 MHz Precision LCR Meter

Instrument Support cont'

Model

Description

*When using more than one of these instruments together, you will need the 2361 TCU and all connectors

Keithley 236*	Source Measure Unit
Keithley 237*	High Voltage Source Measure Unit
Keithley 238*	High Current Source Measure Unit
Keithley 2400 Series*	Digital Source Meter
Keithley 2410*	Digital High Voltage Source Meter
Keithley 2420*	Digital High Current Source Meter
Keithley 2430*	Digital High Power Source Meter
Keithley 6430*	Sub-fA Source Meter
Keithley 90	I-V Semiconductor Test System
Keithley 82	C-V Characterization System
Keithley 590	C-V Analyzer
Keithley 595	C-V Quasi-static CV Meter
Keithley 4200-SCS	Semiconductor Characterization System
Keithley 2600A Series	Digital Source Meter
2601A	20 W Single Channel Source Meter
2602A	20 W Dual Channel Source Meter
2611A	200 V Single Channel Source Meter
2612A	200 V Dual Channel Source Meter
2635A	1 fA 20 W Single Channel Source Meter
2636A	1 fA 20 W Dual Channel Source Meter
QualiTau DSPT9012	Desktop Semiconductor Parametric Tester
Tektronix 370A/B	Curve Tracer
Tektronix 371A/B	High Power Curve Tracer

Metrics ICS 4.5 System Requirements

Metrics ICS version 4.5 requires a PC that meets or exceeds the following requirements. Installation on PC's not meeting these minimum requirements negates any support liability on the part of Metrics Technology.

MINIMUM SYSTEM REQUIREMENTS

2.4 GHz Core i5 Processor (or equivalent)

4 GB RAM

Windows 11 Professional, 64-bit

500 Mbyte available for product installation, plus additional capacity for test data

1 USB-A port, USB → GPIB supported interfaces)

SXGA Monitor (1280 x 1024) minimum resolution

Ethernet – LXI (TCP/IP) interface support

RECOMMENDED SYSTEM REQUIREMENTS

2.4 GHz Core i7 Processor (or equivalent)

16 GB RAM

Windows 11 Professional, 64-bit

500 Mbyte available for product installation, plus additional 50 GB capacity for test data

1 USB-A port (USB → GPIB supported interfaces)

SXGA Monitor (1600 x 1200) minimum resolution

Ethernet – LXI (TCP/IP) interface support

SUPPORTED GPIB INTERFACES

One of the following GPIB cards and the listed software:

NI GPIB-PCI NI-488.2 Software version 2026 or later

NI GPIB-USB-B/HS NI-488.2 Software version 2026 or later

Keysight 82350 A/B Keysight SICL I/O Libraries version 2026 or later

Keysight 82357 A/B Keysight SICL I/O Libraries version 2026 or later

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