Keysight Technologies BenchVue Software v3.0 (BV0000A) Data capture simplified. Click. Capture. Done. Data Sheet





Simplified Measurement Viewing, Control and Capture

Keysight BenchVue software for the PC reinvents your bench testing by making it simple to connect and record results with your instruments with no programming. You will derive answers faster than ever by easily viewing, logging and exporting measurement data and screen images with a few clicks from a single environment.

Use BenchVue to:

- Visualize multiple measurements simultaneously
- Easily log data, screen images and system state
- Recall past state of your bench to replicate results

Save time with:

- Fast measurement data export in desired formats
- Rapidly prototype custom test sequences
- Quickly access manuals, drivers, FAQs and videos

From anywhere:

- Monitor and control your bench from mobile devices

Measurement Viewing



See your measurements across instruments in one place to quickly correlate measurement activities and obtain actionable insight.



Depending on your measurement task, BenchVue provides extensive data, trace and measurement logging capabilities all from within one piece of software.

Plug and Play Instrument Control

Connecting and controlling an instrument to BenchVue is as simple as plugging it in and launching the BenchVue instrument application. No programming or separate instrument drivers required.



Integrated Applications

BenchVue consists of different applications tailored to streamline your measurement tasks and are included in every no cost download of BenchVue (BV0000A).



BenchVue Capabilities and Available Apps

BenchVue provides a wide array of capabilities depending on the instrument application within BenchVue being used. These capabilities will automatically vary based on the functionality of the instrument types and models connected to your PC running BenchVue software. Optional Pro version upgrades are available to extend BenchVue's functionality.

BenchVue app name	No cost version	Optional Pro upgrade
Test Flow	Included in BV0000A	BV1001A
	(demo mode only)	
Digital Multimeter	Included in BV0000A	BV0001A
Function Generator	Included in BV0000A	BV0002A
Power Supply	Included in BV0000A	BV0003A
Oscilloscope	Included in BV0000A	BV0004A
Spectrum Analyzer	Included in BV0000A	BV0005A
Data Acquisition	Included in BV0000A	BV0006A
Power Meter	Included in BV0000A	BV0007A
Network Analyzer	Included in BV0000A	N/A



BenchVue Test Flow App

Rapidly prototype automated tests in BenchVue

Enhance your workflow with the BenchVue Test Flow app by creating custom test procedures within BenchVue software. The intuitive drag-and-drop interface enables you to quickly create simple test procedures or sequences that used to require days using traditional programming languages. Obtain a deeper understanding of your data using the built-in analysis tools that log and graph the data with selectable x-axis and y-axis formats. The BenchVue Test Flow app is installed with the BenchVue platform software.

With BenchVue Test Flow you can:

- Create custom test sequences fast and intuitively
- Combine multiple instruments into a sequence for better DUT characterization
- Drag-and-drop controls and for rapid test prototyping

Interpret results more quickly by:

- Validating your sequence setup using the preview tool
- Customizing your graphs to view measurements with different X-axis and Y-axis information
- Viewing data logs in tabular form
- Exporting data to popular tools such as Microsoft Excel, Microsoft Word and MATLAB for documentation or further analysis



BenchVue Test Flow is integrated into the BenchVue framework and occupies the right-hand panel of the user interface.

					Results		
	1 🚛 🔐 2 📖	-		· · p=====	NISUIS		
More	Function Generator DMM SEMI-CENERRER SEMI-CENERR	_					
	1 - Set Channel 1:Output State OX						
	1 - Sweep Channel 1:Frequency 🗘 🗙 From: 1164z To: 200164z By: 1164z						
	2 - Get Live Data OX S90.107 mVdc						
	repeat 200 times 🚽	0.101	2.354 4.608	6.862 9.	115 11.369 13.623 Time	15.877 18.130 20.38	4 2
		 Chart C 	onfiguration				
							X-Y
		Step	1 - Set Channel 1:Outpu	t State 1 - Sweep Channe	el 1:Frequency 2 - Get Live Data	Time	
						00.03.00	
						00.00.00.1010000	
					1.459805 Vdc	00:00:00.2140000	
						00:00:00.2850000	
						00:00:00.3530000	
					1.390324 Vd:	00.00.00.4450000	
					326.328 mV/dc	00.00.00.0000000	
						00.00.00.7200000	
				8 kHz	256.845 mVdc	00.01.00.8280000	
						00:00:00.9440000	
				10 kHz	966.154 mVdc	00-00-01-0780000	
						00:00:01.1480000	
				12 1/2	512.763 mVdc	00.03.01.2220000	
					286.067 mHdc	00.00.01.3210000	
				14 kHz	443.28 mVdc	00.00.01.4590000	
					1,797934 Vdc	00.00.01.5730000	
				16 kHz	373.797 mVdc	00-00-01-6730000	
				17 kHz	925.893 mVdc	0000101.7810000	
		- 19		18 10/2	1.083106 Vdc	00:02:01.9290000	
	Show Hints Clear		: SequenceDatalog 2015-				
		case real care	· Sequences (100 2015-	07150010550405		<u>сы</u> е е	

Visualize your Test Flow results in chart or tabular form.

Use blocks to control your test workflow

Create your test procedures in BenchVue Test Flow by dragging and dropping blocks into a test sequence. This intuitive method of test design allows you to understand the order of operations within your test sequence. Simply use the instrument controls and measurements that are available from integrated instrument controls in the BenchVue apps. For added flexibility, several utility blocks are available in BenchVue Test Flow including step controls, loops, and the ability to run SCPI commands or external programs.



Arrange the BenchVue Test Flow blocks in sequence in the order you want to run them. Top to bottom.

Built-in blocks add flexibility for your test sequences.



BenchVue Test Flow App

Rapidly prototype automated tests with your BenchVue enabled instruments, log data, and analyze

measurements.

BenchVue Test Flow Instrument App Support

BenchVue Test Flow has support for four instrument applications in BenchVue. Pro and Basic versions of the instrument apps are supported. More instruments and capabilities are added regularly. Update your instrument apps via the apps tab in BenchVue to get the latest features.

App name	Optional Pro upgrade model number
Digital Multimeter	BV0001A
Function Generator	BV0002A
Power Supply	BV0003A
Oscilloscope	BV0004A



Supported functionality

Sequence creation	 Unlimited blocks with simulated instruments (demo version)
	 Unlimited blocks with live instruments (Pro licensed version)
	 Start/step/stop sequence
Data visualization	 Line chart with mouse-over data points, pan
	 X-Y chart with selectable X-axis and Y-axis formats
	– Table
Measurement data log	 Unlimited measurement data logging
Export screen image	– Clipboard
	– File (PNG/JPEG/BMP)
Export data	– MATLAB
	 Microsoft Excel
	 Microsoft Word
	- CSV
Save and recall sequence	
Demo mode capabilities	Sequence creation with simulated instruments only.
Licensed version capabilities	

Unlimited sequence creation with live instruments. Yearly renewable license.

Test Flow Application Support

App control/measuremen Test Flow app	Controls
	 Basic blocks
	– Delay
	– Wait until
	 If then stop
	– Prompt
	– Loops
	– Count
	– Duration
	– While
	– Until
	Advanced
	– SCPI
	– External
Digital Multimeter app	Controls
	 Instrument settings
	 Measurement function and range selection
	 Integration time (NPLC/resolution)
	– Input impedance
	- Auto zero
	– Null state
	– App state
	Measurements
	– Measurement value
Function Generator app	Controls
	 Output control
	- Waveform selection
	 Instrument settings
	 Waveform: amplitude, offset, frequency, pulse width,
	edge timing, and phase
	– App state
Power Supply app	Controls
	 Output control
	 Instrument settings
	 App state
	Measurements
	 Channel voltage
	Channel voltageChannel current
Oscilloscope app	-
Oscilloscope app	- Channel current
Oscilloscope app	- Channel current Controls
Oscilloscope app	 Channel current Controls Default setup Auto scale
Oscilloscope app	 Channel current Controls Default setup Auto scale Channel toggle
Oscilloscope app	 Channel current Controls Default setup Auto scale Channel toggle App state
Oscilloscope app	 Channel current Controls Default setup Auto scale Channel toggle App state Measurements
Oscilloscope app	 Channel current Controls Default setup Auto scale Channel toggle App state Measurements Frequency
Oscilloscope app	 Channel current Controls Default setup Auto scale Channel toggle App state Measurements



BenchVue Digital Multimeter App



Control your digital multimeter to visualize measurements, perform data logging and annotate captured data.



Supported function	nality							
Instrument settings	-		– Measu	rement fur	iction and	range sele	ction	
				ition time (-		
			-	npedance		,		
			– Auto ze					
			– Null sta	ate				
Data visualization			- Chart v	vith annot	ation, zoon	n in/out, au	ito scroll a	and markers
				ram (Pro v				
			– Table		,			
Measurment data lo	og		– Measu	rement da [:]	ta logging	(1 hour du	ation)	
			– Unr	estricted l	ogging wit	h Pro vers	ion	
			– Logger	control				
			– Limit te	esting with	alerts (Pr	o version o	nly)	
Export screen imag	е		– Clipboa	ard				
			– File (Pl	NG/JPEG/	3MP)			
Export data			– MATLA	B				
			– Micros	oft Excel				
			– Micros	oft Word				
			- CSV					
Save and recall inst	trument sta	ate						
Benchvue mobile si	upport							
Supported models	(10)							
34401A 34405A	34410A	34411A	34420A	34450A	34460A	34461A	34465A	34470A
Pro version capabi	lities							
		1	the state of the state		• /		0011)	idea bista sus sea disitista sea bility (0//10A_0//11A

Upgrading to the Pro version (model # BV0001A) provides histograms, digitizer capability (34410A, 34411A, 34460A, 34461A, 34465A and 34470A) and unrestricted data logging with limit checking and alerts.



BenchVue Function Generator App



Control your function generator to set waveform properties and load custom arbitrary waveforms from files or drag-and-drop from an oscilloscope.



Supported functionality - Output control - Waveform selection - Sine - Square - Ramp - Pulse – Arb - Triangle - Noise - PRBS (pseudo-random binary sequence) - DC - Waveform: amplitude, offset, frequency, and phase Instrument settings - Mode select: Modulation: -- Type: AM/FM/PM/FSK/BPSK/SUM -- Source (INT/EXT/CH2) -- Shape (Sin/Squ/Tri/Ramp/Nramp/Noise/PRBS/Arb) -- DSSC (double sideband suppressed carrier) -- Depth and AM frequency settings - Sweep: -- Type (linear/log) -- Frequency set: start/center and stop/span -- Time set: sweep, hold and return – Burst: -- N cycle mode/gated mode, start phase, number of cycles, and period - Output: - Mode (normal/gated), polarity (normal/inverted) and load (discrete/Hi-Z) – Trigger: - Source (IMM/ext/bus/timer), delay - Sync output - Enable (on/off), polarity (normal/inverted), source (Ch1/Ch2) and mode (normal/carrier) Export instrument properties to Microsoft Word Save and recall instrument state

Supported models (17)

33210A	33220A	33250A	33521A	33522A	33509B	33510B	33511B	33512B	33519B	33520B	33521B	33522B	
33611A	33612A	33621A	33622A										

Pro version capabilities

Upgrading to the Pro version (Model # BV0002A) provides advanced waveform creation capabilities by linking to Keysight Waveform Builder Pro Software from BenchVue.



Control your power supply to set parameters, visualize power output and data log changing voltage and current over time.



Supported functionality

oupportourunotionatity	
Output control	
Instrument settings	 Set voltage output and range
	 Set current limit, limit mode and range
	 Enable/disable over voltage protection with limits
Supply output data log	 Output data logging (1 hour duration)
	 Unrestricted logging with Pro version
	– Logger controls
	 Enable/disable voltage and current log
	 Output status alerts (Pro version only)
Export screen image	– Clipboard
	– File (PNG/JPEG/BMP)
Export data	– MATLAB
	– Microsoft Excel
	 Microsoft Word
	- CSV
Save and recall instrument state	
BenchVue mobile support	
· · · · · · · · · · · · · · · · · · ·	

Supported models (57)

E3631A, E3632A, E3633A, E3634A, E3640A, E3641A, E3642A, E3643A, E3644A, E3645A, E3646A, E3647A, E3648A, E3649A, E36102A, E36102A, E36102A, E36104A, E36105A, E36105A, E36106A, N6700A/B¹, N6701A¹, N6702A¹, N6705A/B¹, N6785A, N6786A, N6950A, N6951A, N6952A, N6953A, N6954A, N6970A, N6971A, N6972A, N6973A, N6976A, N6976A, N7950A, N7951A, N7952A, N7953A, N7954A, N7970A, N7971A, N7972A, N7973A, N7974A, N7976A, N7976A, N7976A

SMUs: B2901A, B2902A, B2911A, B2912A, B2961A, B2962A

Pro version capabilities

Upgrading to the Pro version (model # BV0003A) provides unrestricted data logging and status alerts.

1. Modules that are compatible with these mainframes are supported.



BenchVue Oscilloscope App



Control your oscilloscope to quickly capture and annotate screen images, record trace data and data log measurements.



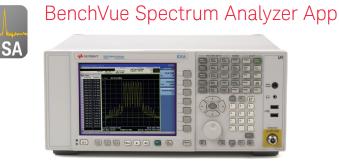
Supported functionality	
Instrument settings	- Auto scale
	 Measurements toggle
	– Run control
	 Vertical scale and offset
	 Channel toggle
	 Trigger controls
	– Default setup
Screen image	 Get current screen with image options
	 Auto refresh control
	 Annotation (drawing/color/font)
Trace data	- Get current traces
	 Display selection (ch/func/mem/digital bus)
	 Set requested points
Measurement data log	 Measurement data logging (1 hour duration)
	 Unrestricted logging with Pro version
	– Logger control
	 Limit testing (Pro version only)
	 Data log configuration
Export data log data	– MATLAB
	– Microsoft Excel
	 Microsoft Word
	- CSV
Export screen images	– Clipboard
	– File (PNG/JPEG/BMP)
	– E-mail
	 Microsoft Word
Export trace data	– HDF5
	– MATLAB
	– Microsoft Excel
	 Microsoft Word
	- CSV
Wavegen capabilities for selected scopes	2000 X-Series, 3000 X-Series, 3000 T-Series, 4000 X-Series, 6000 X-Series
Save and recall instrument state	
BenchVue Mobile support	

Supported models (164) (MSO & DSO)

2000 X-Series, 3000 X-Series, 3000 T-Series, 4000 X-Series, Most 5000 Series, 6000 Series, 6000 X-Series, 7000A/B Series, 9000A Series, S-Series, most 90000 Series

Pro version of	capabilities
----------------	--------------

Upgrading to the Pro version (model # BV0004A) provides unrestricted measurement data logging with limit checking and alerts.



Control your spectrum or signal analyzer to quickly capture and annotate screen images and log trace data.



Supported functionality	
Instrument settings	 Frequency Bandwidth Amplitude Sweep Mode preset Sweep control
Screen image	 Get current screen with image options Screen image logging (1 hour duration) Unrestricted logging with Pro version Annotation (drawing/color/font)
Trace data	 Get current traces Trace data logging (1 hour duration) Unrestricted logging with Pro version Save trace data (CSV)
Export screen images	 Clipboard File (PNG/JPEG/BMP) E-mail Microsoft Word
Export trace data	 MATLAB Microsoft Excel Microsoft Word CSV
Save and recall instrument state	
BenchVue mobile support	

Supported models (21)

UXA N9040B, PXA N9030A, MXA N9020A, EXA N9010A, CXA N9000A, PSA E444xx, ESA E440xx and E4411B, BSA N9320B, N9322C

Pro version capabilities

Upgrading to the Pro version (model # BV0005A) provides deep memory capture and unrestricted data logging of screen images and trace data.



Control your 34970 or 34972 to data log and visualize measurements in a wide array of display options.



Module settings Configure channels Measurement display options Measurement data log	 Slot selection Mode control (scan, switch, inactive) Enable channel Toggle Naming Measurement configuration Function (DC voltage, AC voltage, period, frequency, 2-wire ohms, 4-wire ohms, temp types B, E, J, K, N, R, S, T, 2-wire RTD, 4-wire RTD, 2.2K therm, 5K therm, 10K therm Range Scaling Toggle Gain Offset Label
Measurement display options	 Enable channel Toggle Naming Measurement configuration Function (DC voltage, AC voltage, period, frequency, 2-wire ohms, 4-wire ohms, temp types B, E, J, K, N, R, S, T, 2-wire RTD, 4-wire RTD, 2.2K therm, 5K therm, 10K therm Range Scaling Toggle Gain Offset Label
Measurement display options	 Toggle Naming Measurement configuration Function (DC voltage, AC voltage, period, frequency, 2-wire ohms, 4-wire ohms, temp types B, E, J, K, N, R, S, T, 2-wire RTD, 4-wire RTD, 2.2K therm, 5K therm, 10K therm Range Scaling Toggle Gain Offset Label
	– Label
	 Addition Test parameters
Measurement data log	 Data grid Strip charts High visibility readout display Bar meter Histogram Alarm light panel Background settings
	 Measurement data logging (8 hour duration) Unrestricted logging with Pro version Logger control
Export screen image	– Clipboard – File (PNG/JPEG/BMP)
Export data	 MATLAB Microsoft Excel Microsoft Word CSV
Save and recall instrument state	
Supported models (2)	
	Modules that are compatible with these mainframes are supported)
Pro version capabilities	Jpgrading to the Pro version (model # BV0006A) provides unrestricted data logging.



Control your power meter to data log and visualize measurements in a wide array of display options.

Keysight BenchVue		Bench Apps	Data Manager Ubrary		¢0-
Surt M 📵 Step Al 🔋 Berech Laryade 🔡 📗					8 8 0 E
Passer Heter // U202234A //					0 7 8
🔧 Sedeweed Selay 🔠 Basker 3 🖽 Dayley	12				
Settings Dutalog Settings	Digital Noter : U2022XA [Simulated1]				×
	Measurement : 1				•
	Channel : A1		Avg		50 MHz
Trace Source					30 Pinz
uzezzka - Simulatet - Trace 1 🔹 🐠		Min : -49.54		Max : 9.84	
			-5.34dE	2m	
• Trem Getup Vrite : • • • • • • • • •			- J . J 4 UL	200	
X Start (c) 1 8.000 4 5	Live Data				
x Scale (s/dv) 1 SIE 588 p	Trace View L0002208 [Simulated13] Power (d0m)				×
	20 13				
V Scale (ASVAn) 1 5.000 💌 🔺	10				
	10				
	28				
	30 0.0 100 pp		400 µo 500 µo Time(S)		900 ga 1 mo
	Live Data				- feet
	 Information Fanel 	1			
	Marker Public Analysis Alcit Summary				
	h	1			
Start					0 1 1 1 0 E
	•				
Prover Maler	Proper Paler	Support Parallel Control	der Suffranz 200		Preser Tapping 0AQ

Supported functionality	
Instrument settings	 Preset select (DME, GSM, WCDMA, WLAN, LTE, etc.) Instrument reset Channel setup Mode, offset, frequency Trace setup Units, scale configuration Measurement setup Units, offset, feed setup, alerts, recorder Trigger setup Mode, source, auto level, delay, slope type Gate setup Start, length Calibration, calibration + zero Corrections FDO, Gamma, S-parameter
Measurement display options	 Digital meter view Analog meter view Data log view Trace view with markers and gate Multilist view Alert summary
Measurement data log	 Measurement data logging (1 hour duration) Logger control
Export screen image	– Clipboard – File (PNG/JPEG/BMP) – E-mail
Export data Save and recall instrument state	 MATLAB Microsoft Excel Microsoft Word CSV
Save and recall instrument state	

Supported models (7)

U2021XA, U2022XA, U2041XA, U2042XA, U2043XA, U2044XA, U2049XA LAN

Pro version capabilities

Upgrading to the Pro version (model # BV0007A) provides unrestricted data logging.



BenchVue Network Analyzer App



Quickly capture and annotate screen images and acquire trace data from your network analyzer for documentation and further analysis.



Supported functionality			
Screen image	 Get current screen 		
	 Auto refresh control 		
	 Annotation (drawing/color/font) 		
Trace data	 Get current traces (16 upper limit) 		
	 Individual trace toggle 		
	 Formatted and corrected trace data selection 		
	 Formatted and corrected memory data selection 		
Export screen image	– Clipboard		
	– File (PNG/JPEG/BMP)		
	– E-mail		
	– Microsoft Word		
Export data	– MATLAB		
	- Microsoft Excel		
	 Microsoft Word 		
	- CSV		
Save and recall instrument state			
Supported models (21)			
ENA	E5080A, E5061B, E5063A, E5071C, E5072A		
PNA	N5221A, N5222A, N5224A, N5245A, N5227A		
PNA-L	N5231A, N5232A, N5234A, N5235A, N5239A		
PNA-X	N5241A, N5242A, N5244A, N5245A, N5247A, N5249A		

BenchVue Mobile

Mobile apps lets you monitor and respond to long running tests from anywhere. Multimeters, oscilloscopes, function generators, spectrum analyzers and power supplies are all supported from one app.



BenchVue mobile is a mobile app that you can install on an Android or Apple iOS device to control BenchVue bench applications running on your Windows computer. BenchVue mobile connects to your computer as a client, and requires that your mobile device and computer be connected to the same local network or intranet (behind the same corporate firewall). This network connection can be made via a WiFi connection inside your work location or externally through a VPN connection.

BenchVue Demonstration Mode

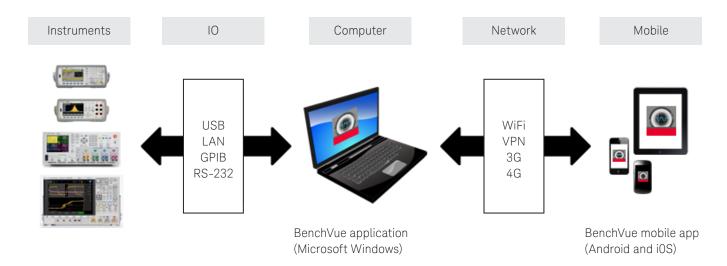
BenchVue includes a demonstration mode that requires no instruments to be connected, making product evaluation quick and easy. Simply download and click "enable demo mode" under the global setting menu to begin exploring BenchVue functionality.

Settings Mobile Access	
Enable Demo Mode	
Show Welcome Screen Report an Issue	

To assist in the evaluation of BenchVue with physical instruments, BenchVue includes an integrated user manual and getting started guide to make setup quick and easy.

Supported Apps for BenchVue Mobile

- Digital Multimeter app
- Function Generator app
- Power Supply app
- Spectrum Analyzer app
- Oscilloscope app



System and Installation Requirements

Computer operating system				
Windows 10, 8, 7	 Windows 10 32-bit and 64-bit (Professional, Enterprise, Education, Home versions) Windows 8 32-bit and 64-bit (Professional, Enterprise, Core) Windows 7 SP1 and later 32-bit and 64-bit (Professional, Enterprise, Ultimate, Home Basic, Home Premium) 			
Computer hardware	Windows 10, 8 and 7			
	 Processor: 1 GHz or faster (2 GHz or 			
	greater recommended)			
	 RAM: 1 GB (32-bit) or 2 GB (64-bit) 			
	(3 GB or greater recommended)			
Interfaces	USB, GPIB, LAN, RS-232			
Display resolution	1024 x 768 minimum for single instrument			
	view (higher resolutions are recommended for			
	multiple instrument view)			

Additional requirements

BenchVue requires a VISA (Keysight or National Instruments) when used to connect to physical instruments. Keysight IO Libraries Suite, which contains the necessary VISA, will be downloaded and installed automatically when BenchVue is installed if needed. IO Libraries Suite 16.3 or newer is recommended. IO Libraries Suite information is available at: www.keysight.com/find/iosuite

Mobile devices

Apple iPhone, iPad, iPod Touch all models; iOS 6.0 and later. Android phone and tablets; Android 2.3.5 and later.

With BenchVue, It's as Simple as: Click. Capture. Done.

BenchVue software for PC

Download cost free at: www.keysight.com/find/BenchVue

BenchVue software for mobile devices

Find BenchVue mobile for your respective device by visiting www.keysight.com/find/BenchVueMobile

Download your next insight

Keysight software is downloadable expertise. From first simulation through first customer shipment, we deliver the tools your team needs to accelerate from data to information to actionable insight.

- Electronic design automation (EDA) software
- Application software
- Programming environments
- Utility software

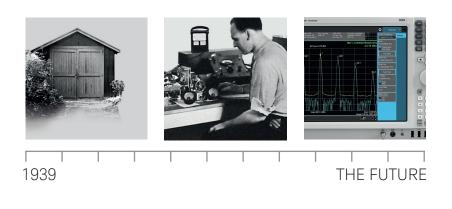


Learn more at www.keysight.com/find/software

Start with a 30-day free trial. www.keysight.com/find/free_trials

From Hewlett-Packard through Agilent to Keysight

For more than 75 years, we've been helping you unlock measurement insights. Our unique combination of hardware, software and people can help you reach your next breakthrough. Unlocking measurement insights since 1939.



myKeysight

myKeysight

www.keysight.com/find/mykeysight A personalized view into the information most relevant to you.

Keysight Channel Partners

www.keysight.com/find/channelpartners

Get the best of both worlds: Keysight's measurement expertise and product breadth, combined with channel partner convenience.

www.keysight.com www.keysight.com/find/benchvue

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

Americas

Canada	(877) 894 4414
Brazil	55 11 3351 7010
Mexico	001 800 254 2440
United States	(800) 829 4444
Asia Pacific Australia China Hong Kong India Japan Korea Malaysia Singapore Taiwan Other AP Countries	1 800 629 485 800 810 0189 800 938 693 1 800 11 2626 0120 (421) 345 080 769 0800 1 800 888 848 1 800 375 8100 0800 047 866 (65) 6375 8100

Europe & Middle East

United Kingdom

For other unlisted countries: www.keysight.com/find/contactus (BP-10-30-15)

0800 0260637



This information is subject to change without notice. © Keysight Technologies, 2014 - 2015 Published in USA, November 4, 2015 5991-3850EN www.keysight.com