Keysight Technologies DSO1000A/B Series Portable Oscilloscopes

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DSO1024A

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Mode

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Engineered to give you more scope than you thought you could afford



Data Sheet

Auto-Scale Detaile Setup



More scope than you thought you could afford

Keysight Technologies, Inc. 1000 Series oscilloscopes deliver the performance and features you expect in a big scope – and the portability and low price you require in a small one. We've redefined the economy scope by giving you powerful signal capture and display, advanced measurement capabilities and accelerated productivity.





2-chainer mouers	
DS01052B	50 MHz
DS01072B	70 MHz
DS01102B	100 MHz
DS01152B	150 MHz
DS01022A	200 MHz

2-channel models

4-channel models	
DS01004A	60 MHz
DS01014A	100 MHz
DS01024A	200 MHz

Weighing less than 7 pounds with a small footprint, the 1000 Series can go anywhere with ease.

Whether your job is designing products in R&D, teaching the next generation in education, or testing in manufacturing or service, the new 1000 Series oscilloscopes can help get it done with confidence.

R&D



Figure 1. Features normally only found on much higher priced scopes equip the 1000 Series to be a powerful choice for R&D applications.

Education



Figure 2. Economical prices make the 1000 Series ideal for teaching basic scientific and engineering measurements at lab stations in schools and universities.

Manufacturing



Figure 3. Standard go/no-go mask testing is just one of the reasons manufacturing and service test demand 1000 Series solutions.

Powerful signal capture and display

- Wide viewing angle, bright color display
- Up to 20 kpts memory, up to 8x more than other scope
- Up to 2 GSa/s sample rate
- Simultaneous viewing of main and zoomed waveforms
- 25% more viewing area with menus switched off

Capture long time periods with high resolution

1000A Series models provide up to 20 kpts and 1000B models provide up to 16 kpts of acquisition memory standard. The scope will maintain high-resolutionacquisitions even at slower timebase settings so you can see the details on your signals.

See your signals more clearly

Every 1000 Series scope incorporates a bright, crisp LCD color display (300 cd/m2). You can quickly view your signal from almost any angle. Unlike conventional scopes that always require menus to be on, the entire 5.7-inch diagonal screen is available for full waveform display as needed.

Simultaneous viewing of main and zoomed waveforms

Dual display shows your entire signal and zoomed in waveform details at the same time.



Figure 4. The bright, crisp display on the 1000 Series oscilloscope and its wide viewing angle let you quickly identify your signal activity.

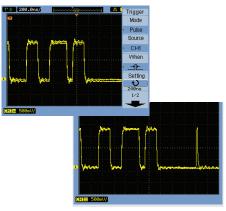


Figure 5. Turning off the menu gives almost 25% more viewing area for your signals.

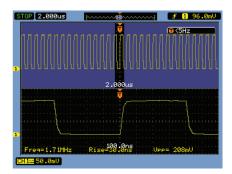


Figure 6. View a long record and the details of a zoom window simultaneously.

Advanced measurement capability

- 23 automatic measurements
- Waveform math including FFT
- Standard go/no-go mask testing
- Sequential acquisition of up to 1000 trigger events
- Selectable high-pass, low-pass, band-pass, and band-reject digital filters

23 automatic measurements

All 1000 Series scopes come equipped with 23 automatic voltage, time and frequency measurements. Press the Measure key to bring up the three you use most often or display all single-channel measurements on the screen simultaneously.

Sequence mode for easier debug

Record up to 1000 occurrences of a trigger event and then play them back to easily spot glitches or other anomalies for further examination. Store the waveforms to internal or external memory (USB flash drive).

Digital filtering on waveforms

Apply a real-time digital filter of your choice to the input source waveform to eliminate unwanted frequencies from your display. Digital filtering selections include Low-pass, high-pass, band-pass and band-reject filters. Frequency limits are selectable between 250 Hz and the full bandwidth of your oscilloscope.

Advanced triggering

Triggering options for the 1000 Series include edge, pulse width, composite video, pattern ("A" models only) and alternate channel trigger modes. These modes ensure that you can capture and view hard-to-find signal conditions.

Remote programming (Only available on "A" models)

For remote instrument control over the built-in USB device port, utilize Keysight's I/O libraries with direct command control from Keysight VEE Pro, or National Instrument's I/O libraries and available instrument drivers for the 1000A Series scope in your application. These NI certified drivers include Plug and Play for LabView and IVI for LabVIEW, LabWindows/CVI, and Measurement Studio for Visual Studio.

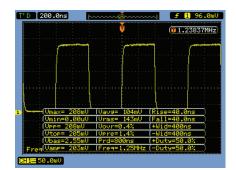


Figure 7. Display all single-channel measurements on screen simultaneously.

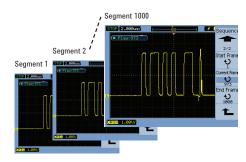


Figure 8. Use sequence mode to record up to 1000 triggers and review in playback mode for anomalies.

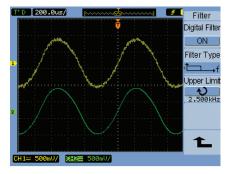


Figure 9. The Ch 1 waveform (Yellow) shows an unfiltered input and the Ch 2 waveform (Green) shows the same input signal with a low pass filter.

Accelerated productivity

- Autoscale
- 11-Language localization of user interface, front panel controls, and manuals
- Context-sensitive built-in help menus
- USB connectivity
- Free education student lab guide and professor slide set

Make fast go/no-go decisions

Automatic pass/fail mask testing comes as a standard feature on all 1000 Series scopes. Acquire a "golden" waveform and define tolerance limits to create a test envelope. Create custom mask's based on XY tolerances and input those into the scope. Incoming signals will be compared to the allowable range and quickly flagged as pass or fail. This is ideal for manufacturing or service where you need to make decisions quickly.

Waveform math and FFT

Standard math functions include addition, subtraction or multiplication of any two input channels and Fast Fourier Transform (FFT) with four user-selectable windows (Rectangle, Hanning, Hamming and Blackman).

Multi-language interface

Operate the oscilloscope in the language most familiar to you. The built-in help system, graphical user interface, front panel overlays and user's manual are available in eleven languages. Choose from: English, Japanese, simplified Chinese, traditional Chinese, Korean, German, French, Spanish, Russian, Portuguese, and Italian.

Autoscale

Quickly display any active signals and automatically set the vertical, horizontal and trigger controls for optimal viewing with the press of the autoscale button. (This feature can be disabled or enabled for education customers).

Connectivity

Built-in USB host and device ports and free IntuiLink software make documentation and PC connectivity easy. Store waveforms and setups to a USB flash drive, easily update scope firmware, document directly to a connected PC running Microsoft Word or Excel, and print to any PictBridge compatible printer.

Education Resource Kit

Keysight provides a variety of oscilloscope resource training tools to help your EE students come up-to-speed on what an oscilloscope is and how to use one. Downloadable resources include: EE student's oscilloscope lab guide and tutorial, Professor's Oscilloscope Fundamentals slide-set, probe loading experiment and oscilloscope application notes.

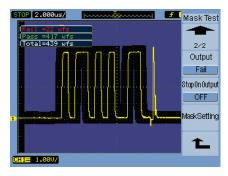


Figure 10. Mask testing provides a quick pass/fail comparison of an incoming signal to a test envelope you define.

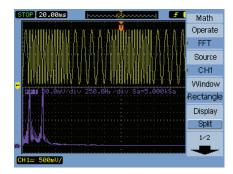


Figure 11. Built-in FFT enables easy spectral analysis on the time-domain signal.

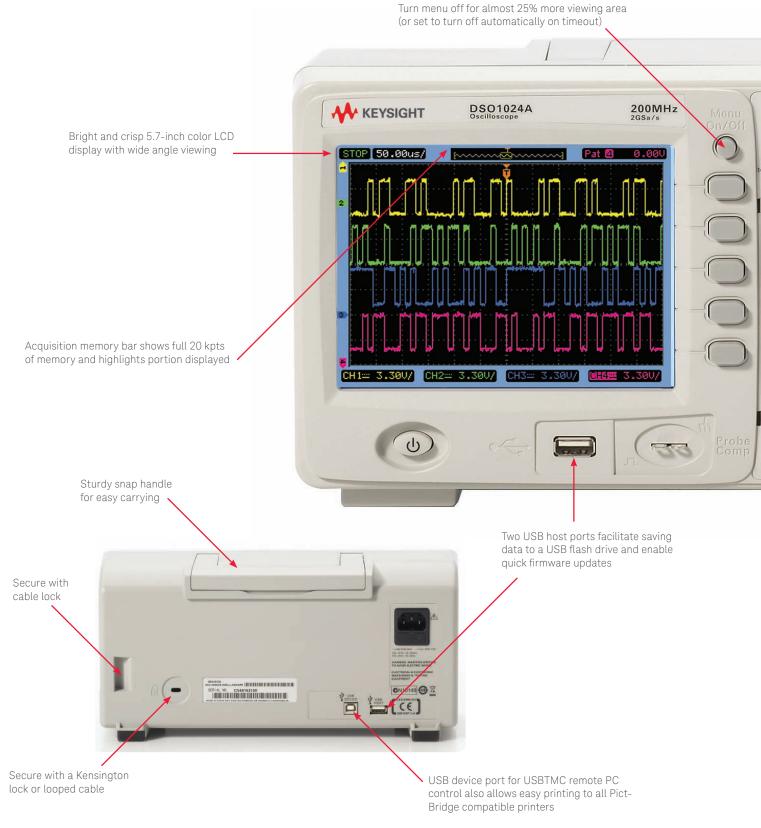


Figure 12. Choose from 11 different languages for oscilloscope interface and help.

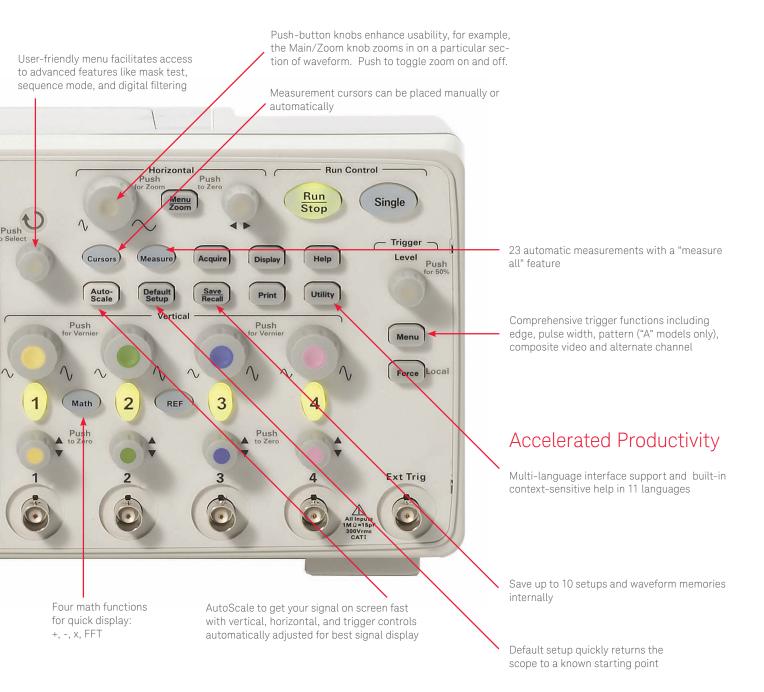


Keysight 1000A Series portable oscilloscopes: Engineered to give you more scope than you thought you could afford

Powerful Signal Capture and Display



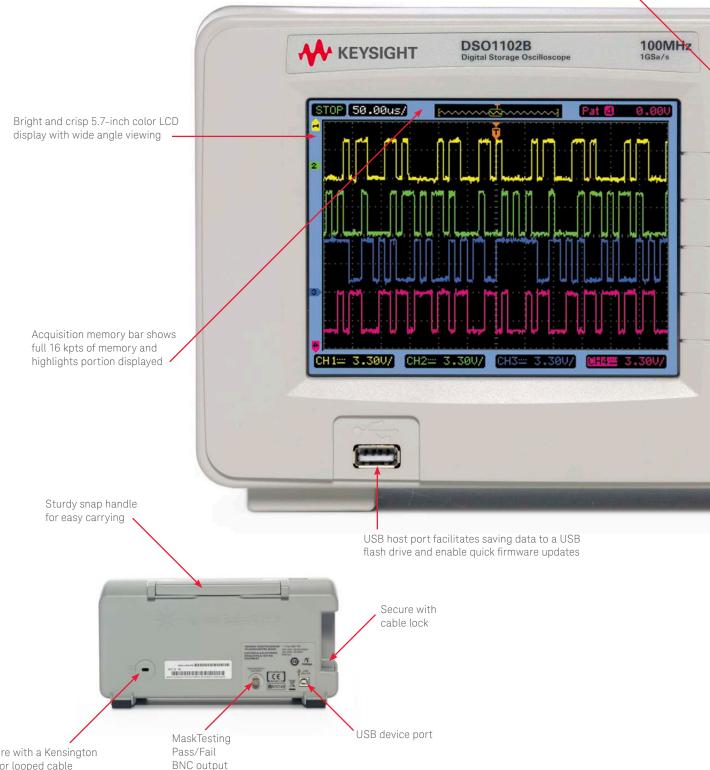
Advanced Measurement Capabilities



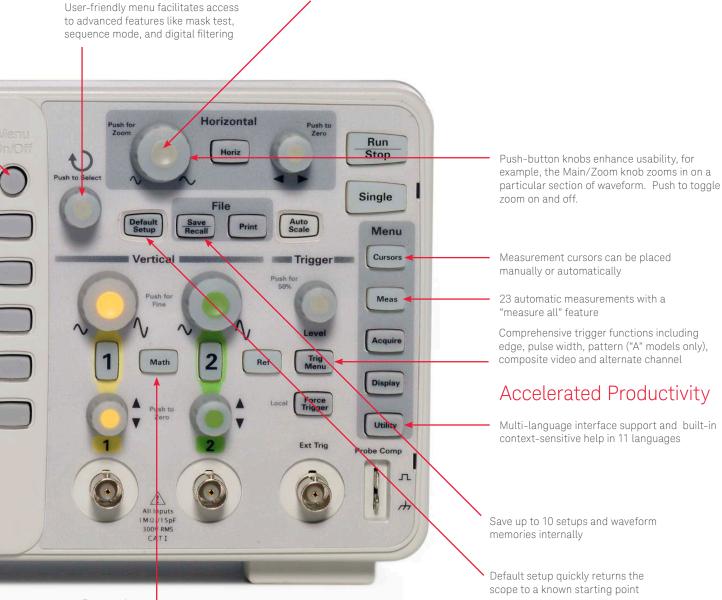
Keysight 1000B Series portable oscilloscopes: Engineered to give you more scope than you thought you could afford

Powerful Signal Capture and Display

Turn menu off for almost 25% more viewing area (or set to turn off automatically on timeout)



Secure with a Kensington lock or looped cable



Advanced Measurement Capabilities

AutoScale to get your signal on screen fast

with vertical, horizontal, and trigger controls

automatically adjusted for best signal display

Four math functions for quick display: +, -, x, FFT

Performance characteristics

Bandwidth (-3dB) ^{1,2}	DS01052B:	DC to 50 MHz	
	DS01002A, DS01004A:	DC to 60 MHz	
	DS01072B:	DC to 70 MHz	
	DS01102B, DS01012A, DS01014A:	DC to 100 MHz	
	DS01152B:	DC to 150 MHz	
	DS01022A, DS01024A:	DC to 200 MHz	
Real-time sample rate	2 GSa/sec half channel interleaved, 1 GSa	/sec all channels (A models)	
	1 GSa/sec half channel interleaved, 500 MSa/sec all channela (B models)		
Memory depth	20 kpts half channel interleaved, 10 kpts all channels (A models)		
	16 kpts half channel interleaved, 8 kpts all channels (B models)		
Channels	DS01052B, DS01002A, DS01072B, DS01	1102B, DS01012A, DS01152B, DS01022A : 2 channels	
	DS01004A, DS01014A, DS01024A : 4 channels		
Vertical resolution	8 bits		
Vertical sensitivity (range)	2 mV/div to 10 V/div		
DC gain accuracy ¹	2 mV/div to 5 mV/div: \pm 4.0% full scale (A	and B models)	
	10 mV/div to 5 V/div: ± 3.0% full scale (A models only)		
	10 mV/div to 10 V/div: \pm 3.0% full scale (B models only)		
Vertical zoom	Vertical expand		
Maximum input voltage	CAT I 300 Vrms, 400 Vpk; transient overvol	tage 1.6kVpk	
Dynamic range	+6 divisions from center screen		
Time-base range	DS01022A, DS01024A:	1 nsec/div to 50 sec/div	
	DS01012A, DS01014A, DS01102B:	2 nsec/div to 50 sec/div	
	DS01002A, DS01004A, DS01052B, DS01	1072B:5 nsec/div to 50 sec/div	
Selectable BW limit	20 MHz		
Horizontal modes	Main (Y-T), XY, delayed zoom and roll		
Input coupling	DC, AC and ground		
Input impedance	1 M Ω ±1% in parallel with 18 pF ± 3 pF (A	A models)	
	1 M Ω ±2% in parallel with 15 pF ± 3 pF (E	3 models)	
Time scale accuracy ¹	± 50 ppm from 0 °C to 30 °C, (A models)		
	\pm 50 ppm + 2 ppm per °C from 30 °C to 4	5 °C + 5 ppm $ imes$ (years since manufacture) (A models)	
	\pm 50 ppm over 1 ms (B models only)		

¹ Denotes warranted specifications, all others are typical. Specifications are valid after a 30-minute warm-up period and ±10°C from firmware calibration temperature.

 $^{\rm 2.}$ 20 MHz (when vertical scale is set to < 5 mV)

Performance characteristics

Acquisition modes	
Normal	Displays sampled data directly to the screen in real time
Averaging	Selectable from 2, 4, 8, 16, 32, 64, 128 or 256
Sequence	Selectable 1 to 1,000 acquisition frames can be recorded, played back and stored in the scope memory or
	external USB memory
Peak Detect	Captures high-frequency glitches as narrow as 10 nsec (A models) and 20 nsec (B models) when viewing
	signals at slow sweep speeds
Roll	Waveform display rolls from right to left. minimum horizontal scale setting is 50 msec/div.
Interpolation	Sin (x)/x
Trigger coupling	AC, DC, LF reject, HF reject
Trigger modes	
Force	Triggers immediately when front panel button is pressed
Edge	Triggers on the positive and/or negative slope on any channel
Video	Triggers on NTSC, PAL or SECAM video signals
Pulse width	Triggers on pulse width greater than, equal to or less than a specific time limit, ranging from
	20 nsec to 10 sec (A models) and 50ns to 10 sec (B models)
Alternate	Triggers on two non-synchronized active channels
Trigger source	Ch 1, 2, Ext, Ext/5, AC Line (edge only) (2 channel A models)
	Ch 1, 2, Ext, AC Line (edge only) (B Models)
	Ch 1, 2, 3, 4, Ext, Ext/5, AC Line (edge only) (4-channel A models)
Trigger sensitivity ¹	\geq 5 mV/div: 1 div from DC to 10 MHz, 1.5 div from 10 MHz to full bandwidth
	<5 mV/div: 1 div from DC to 10 MHz, 1.5 div from 10 MHz to 20 MHz
Cursor measurement	Manual, track waveform or automatic measurement selections. Manual and track waveform selections provide
	readout of Horizontal (X, Δ X) and Vertical (Y, Δ Y)
Auto measurement	
Voltage	Maximum, minimum, peak-to-peak, top, base, amplitude, average, RMS, overshoot, preshoot
Time	Period, frequency, rise time, fall time, + width, - width, +duty cycle, -duty cycle, delay A>B (rising edge),
	delay A>B (falling edge), phase A>B (rising edge) and phase A>B (falling edge)Integrated 6-digit
Counter	frequency counter on any channel. Counts up to the scope's bandwidth
Display all measurements	Mode to display all single-channel automatic measurements simultaneously on the display
Math Functions	A+B, A-B, AxB, FFT
	Source channel selection for A and B can be any combination of oscilloscope channels 1 and 2
	(or 3 and 4 on 4 channel A models).
Auto Scale	Finds and displays all active channels, sets edge trigger modes on highest numbered channels, sets vertical
	sensitivity on channels, time base to display ~2 periods. Requires minimum voltage >20 mVpp, 1% duty cycle
	and minimum frequency >50 Hz
Display	5.7 inch diagonal color QVGA TFT LCD display with 300 cd/m2 backlight intensity
Display persistence	OFF, Infinite
Display types	Dots, Vectors
Waveform update rate	400 waveforms/sec (A models)
	200 wfm/sec (B models)
Save/Recall internal	10 setups and 10 waveforms can be saved and recalled using internal non-volatile memory locations. 1 refer-
	ence waveform can be saved and recalled using an internal volatile memory location for visual comparisons.
Save/Recall external	Setups: STP saved and recalled (Note: setups not transferable between A and B models)
	Waveforms: WFM saved and recalled, CSV saved
	Reference waveforms: REF saved and recalled for visual comparisons
	Images: 8-bit BMP, 24-bit BMP, PNG saved

1. Denotes warranted specifications, all others are typical. Specifications are valid after a 30-minute warm-up period and ±10°C from firmware calibration temperature.

Performance characteristics

1/0	
1/0	
Standard ports	USB 2.0-compliant host port on front panel (A and B models) and rear panel (A models only) compatible with USB flash drives. USB 2.0 device port for PictBridge compatible printing (A and B models) and USBTMC remote PC control (A mod els only)
Max transfer rate	USB 2.0 full-speed up to 12 Mb/sec
USB flash drive compatibility	Most FAT formatted <2 GB or FAT32 formatted <32 GB flash drives
Printer compatibility	PictBridge-compliant printers via USB device port
General characteristics	
Physical size	12.78 inches W x 6.21 inches H x 5.08 inches D (32.46 cm W x 15.78 cm H x 12.92 cm D) (A models) 11.9 inches W x 6.06 inches H x 5.23 inches D (30.3 cm W X 15.4 cm H X 13.3 cm D) (B models)
Weight	Net: 3.03 kgs (6.68 lbs) Shipping: 4.87 kgs (10.74 lbs) (A models) Net: 2.4 kgs (5.3lbs) Shipping: 3.87 kgs (8.3lbs) (B models)
Probe comp output	Frequency ~1 kHz; Amplitude ~3 V
Scope lock	Secure with a Kensington lock or looped cable through notch built into chassis
Power requirements	
Line range	100-240 VAC, 50/60 Hz ± 10%
Power usage	~60 W max (A models) ~50 W max (B models)
Environmental characteristics (A Ambient temperature	A models) Operating 0°C to +40°C; non-operating -20°C to +60°C
Ambioni tomporaturo	Operating 0 C to +40 C, non-operating -20 C to +60 C
Humidity	Operating 90% RH at 40°C for 24 hr; non-operating 60% RH at 60°C for 24 hr
Humidity	Operating 90% RH at 40°C for 24 hr; non-operating 60% RH at 60°C for 24 hr
Humidity Altitude	Operating 90% RH at 40°C for 24 hr; non-operating 60% RH at 60°C for 24 hr Operating to 4,400 m (15,000 ft); non-operating to 15,000 m (49,213 ft)
Humidity Altitude Vibration	Operating 90% RH at 40°C for 24 hr; non-operating 60% RH at 60°C for 24 hr Operating to 4,400 m (15,000 ft); non-operating to 15,000 m (49,213 ft) Keysight class GP and MIL-PRF-28800F; class 3 random
Humidity Altitude Vibration Shock	Operating 90% RH at 40°C for 24 hr; non-operating 60% RH at 60°C for 24 hr Operating to 4,400 m (15,000 ft); non-operating to 15,000 m (49,213 ft) Keysight class GP and MIL-PRF-28800F; class 3 random Keysight class GP and MIL-PRF-28800F Normally only dry non-conductive pollution occurs.
Humidity Altitude Vibration Shock Pollution degree ²	Operating 90% RH at 40°C for 24 hr; non-operating 60% RH at 60°C for 24 hr Operating to 4,400 m (15,000 ft); non-operating to 15,000 m (49,213 ft) Keysight class GP and MIL-PRF-28800F; class 3 random Keysight class GP and MIL-PRF-28800F Normally only dry non-conductive pollution occurs. Occasionally a temporary conductivity caused by condensation must be expected Rated for indoor use only
Humidity Altitude Vibration Shock Pollution degree ² Indoor use	Operating 90% RH at 40°C for 24 hr; non-operating 60% RH at 60°C for 24 hr Operating to 4,400 m (15,000 ft); non-operating to 15,000 m (49,213 ft) Keysight class GP and MIL-PRF-28800F; class 3 random Keysight class GP and MIL-PRF-28800F Normally only dry non-conductive pollution occurs. Occasionally a temporary conductivity caused by condensation must be expected Rated for indoor use only
Humidity Altitude Vibration Shock Pollution degree ² Indoor use Environmental characteristics (E	Operating 90% RH at 40°C for 24 hr; non-operating 60% RH at 60°C for 24 hr Operating to 4,400 m (15,000 ft); non-operating to 15,000 m (49,213 ft) Keysight class GP and MIL-PRF-28800F; class 3 random Keysight class GP and MIL-PRF-28800F Normally only dry non-conductive pollution occurs. Occasionally a temporary conductivity caused by condensation must be expected Rated for indoor use only B models) Operating 10°C to +40°C; non-operating -20°C to +60°C Fan force air flow
Humidity Altitude Vibration Shock Pollution degree ² Indoor use Environmental characteristics (E Ambient temperature	Operating 90% RH at 40°C for 24 hr; non-operating 60% RH at 60°C for 24 hr Operating to 4,400 m (15,000 ft); non-operating to 15,000 m (49,213 ft) Keysight class GP and MIL-PRF-28800F; class 3 random Keysight class GP and MIL-PRF-28800F Normally only dry non-conductive pollution occurs. Occasionally a temporary conductivity caused by condensation must be expected Rated for indoor use only
Humidity Altitude Vibration Shock Pollution degree ² Indoor use Environmental characteristics (E Ambient temperature Cooling Method	Operating 90% RH at 40°C for 24 hr; non-operating 60% RH at 60°C for 24 hr Operating to 4,400 m (15,000 ft); non-operating to 15,000 m (49,213 ft) Keysight class GP and MIL-PRF-28800F; class 3 random Keysight class GP and MIL-PRF-28800F Normally only dry non-conductive pollution occurs. Occasionally a temporary conductivity caused by condensation must be expected Rated for indoor use only B models) Operating 10°C to +40°C; non-operating -20°C to +60°C Fan force air flow
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Humidity Altitude Vibration Shock Pollution degree ² Indoor use Environmental characteristics (E Ambient temperature Cooling Method Humidity Altitude Operating Vibration	Operating 90% RH at 40°C for 24 hr; non-operating 60% RH at 60°C for 24 hr Operating to 4,400 m (15,000 ft); non-operating to 15,000 m (49,213 ft) Keysight class GP and MIL-PRF-28800F; class 3 random Keysight class GP and MIL-PRF-28800F Normally only dry non-conductive pollution occurs. Occasionally a temporary conductivity caused by condensation must be expected Rated for indoor use only B models) Operating 10°C to +40°C; non-operating -20°C to +60°C Fan force air flow Operating; +35°C or below ≤90 % relative humidity; non-operating +40°C ≤60 % relative humidity Operating to 3,000 m (9.842 ft); non-operating to 15,000 m (49,213 ft)
Humidity Altitude Vibration Shock Pollution degree ² Indoor use Environmental characteristics (E Ambient temperature Cooling Method Humidity Altitude Operating	Operating 90% RH at 40°C for 24 hr; non-operating 60% RH at 60°C for 24 hr Operating to 4,400 m (15,000 ft); non-operating to 15,000 m (49,213 ft) Keysight class GP and MIL-PRF-28800F; class 3 random Keysight class GP and MIL-PRF-28800F Normally only dry non-conductive pollution occurs. Occasionally a temporary conductivity caused by condensation must be expected Rated for indoor use only B models) Operating 10°C to +40°C; non-operating -20°C to +60°C Fan force air flow Operating; +35°C or below ≤90 % relative humidity; non-operating +40°C ≤60 % relative humidity Operating to 3,000 m (9.842 ft); non-operating to 15,000 m (49,213 ft) Keysight class GP and MI-PRF-28800F; class 3 random
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Ordering information

2 - Channel Models	Description
DS01052B	50 MHz, 1 GSa/s, 16 kpts, 2-ch
DS01072B	70 MHz, 1 GSa/s, 16 kpts, 2-ch
DS01102B	100 MHz, 1 GSa/s, 16 kpts, 2-ch
DS01152B	150 MHz, 1 GSa/s, 16 kpts, 2-ch
DS01022A	200 MHz, 2 GSa/s, 20 kpts, 2-ch

DS01004A 60 MHz, 2 GSa/s, 20 kpts, 4-ch	
00 10112, 2 03a75, 20 kpts, 4-cm	
DS01014A 100 MHz, 2 GSa/s, 20 kpts, 4-ch	
DS01024A 200 MHz, 2 GSa/s, 20 kpts, 4-ch	



Soft carrying case for 1000 Series

Accessories included:

- IntuiLink toolbar connectivity software downloadable free from www.keysight.com/find/intuilink
- Documentation CD
- Localized front panel overlay (if language option other than English is chosen)
- Power cord
- 10:1 passive probe for each input channel (2 or 4)
- Education student lab guide and professor slide set downloadable free from: www.Keysight.com/find/1000edu

Optional accessories:

- N2738A Soft carrying case for 1000A/B Series
- N2739A Rackmount kit for 1000A Series (A models only)

Recommended probes

- N2862B 150 MHz 10:1 passive probe (standard with 50, 60, 70, 100 MHz models)
- N2863B 300 MHz 10:1 passive probe (standard with 150, 200 MHz models)
- 10070D 20 MHz 1:1 passive probe
- -10076B 250 MHz, 100:1, 4 kV passive probe
- N2771B 50 MHz, 1000:1 30 kV passive probe
- N2791A 25 MHz, 700V differential probe
- N2891A 70 MHz, 7 kV differential probe
- 1146A 100 kHz, 100A AC/DC current probe (requires 9V battery)

Software and Drivers

- IntuiLink toolbar connectivity software downloadable free from www.keysight.com/find/intuilink



Rackmount kit for 1000A Series only

myKeysight

myKeysight

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www.keysight.com/find/mykeysight

A personalized view into the information most relevant to you.

www.axiestandard.org

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Keysight Assurance Plans

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1 800 112 929
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080 769 0800
1 800 888 848
1 800 375 8100
0800 047 866
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Europe & Middle East

United Kingdom

For other unlisted countries: www.keysight.com/find/contactus (BP-07-01-14)



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