



Our Popular Test & Measurement Solutions

SELECTION GUIDE

May 2024

KEITHLEY
A Tektronix Company



Contents :

Oscilloscopes :	3
Probes :	4
Software :	5
Digital Multimeters :	6
Data Acquisition (DAQ) Systems :	7
Source Measure Units :	8
Signal Generators :	9
Spectrum Analyzers :	10
DC Power Supplies :	11

Oscilloscopes :

Mini Selection Guide



2 Series MSO :

Unlock more space on your bench without compromising performance by choosing our most compact and handheld portable oscilloscope. At only 1.5 inches thick and less than 4 pounds, the 2 Series MSO feels like a tablet while offering the full-featured functionality of a real-time touchscreen oscilloscope.

Key Features

- Bandwidth **70 MHz - 500 MHz**
- Analog Channels **2 or 4**
- Digital Channels **16 (optional)**
- Sample Rate **1.25 GS/s - 2.5 GS/s**



4 Series B MSO :

The versatile 4 Series B MSO has the performance to address tough design challenges and a user interface that works the way you expect. With a new upgraded processor system, it delivers accurate measurements faster with an outstanding range of analysis tools.

Key Features

- Bandwidth **200 MHz to 1.5 GHz**
- Analog Channels **4 or 6**
- Digital Channels **Up to 48 (optional)**
- Sample Rate **6.25 GS/s**



TBS1000C :

Get industry-leading quality and reliability for educational institutions, embedded designers, and small business owners.

Key Features

- Bandwidth **upto 200MHz**
- Analog Channels **2**
- Sample Rate **1 GS/s**



TBS2000B :

When you see more signal, you find anomalies faster. With an impressive 9-inch WVGA display and 15 horizontal divisions —allowing you to see 50% more signal—the TBS2000B digital storage oscilloscope not only helps you see the big picture, it gives you a clearer picture.

Key Features

- Bandwidth **up to 200MHz**
- Analog Channels **2 or 4**
- Record length **5M points**
- Sample Rate **2 GS/s**

Probes :

Mini Selection Guide



Power Rail Probes :

Optimized for power integrity measurements, these probes combine low noise contribution, DC offset up to 60 V, high bandwidth, low loading, and a wide range of connectivity alternatives.

↓ Key Features

- Bandwidth up to 4 GHz
- Offset range up to ± 60 V
- Lowest noise
- Flexible connectivity



IsoVu Isolated Probes :

IsoVu™ Probe Technology virtually eliminates common mode interference using optical isolation. This delivers accurate differential measurements on reference voltages slewing ± 60 kV at 100V/ns or faster.

↓ Key Features

- Bandwidth **up to 1 GHz**
- Differential voltage up to **± 2500 V**
- Common mode voltage **60kV**
- Common Mode Rejection Ratio **Up to 160 dB (100 million to 1)**

Software :

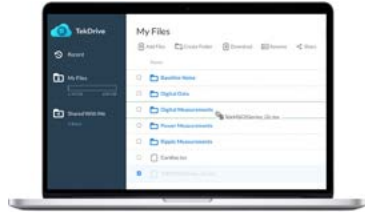
Mini Selection Guide



Python Drivers for Test Automation :

Key Features

- Explore comprehensive docstrings and extensive type hints to learn and effectively use the instrument's full capabilities.
- Leverage auto-completion and code suggestions to speed up development.
- Seamless Integration with your existing automation frameworks to realize each instrument's full potential.



Tekdrive :

Key Features

- Analyze and explore standard files such as *.wfm, *.isf, *.tss, and *.csv in your browser.
- Securely share files and folders instantly with other users
- REST API enables integration with any connected device or software application.



TekScope PC Analysis Software :

Key Features

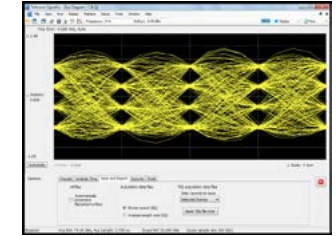
- Perform basic instrument control, waveform transfer and advanced analysis with oscilloscopes.
- Supports most waveform files (.wfm, .isf, .csv, .h5, .tr0, .trc, and .bin)
- Decode common serial protocols, including: I2C, SPI, RS-232/422/485/UART, CAN, CAN-FD, LIN



KickStart Software :

Key Features

- Save time by automating data collection of millions of readings.
- Set up multi-instrument tests with the ability to independently control up to eight instruments.
- Replicate tests quickly using saved test configurations.



SignalVu - Spectrum Analyzer Software :

Key Features

- Analyze waveforms without acquisition hardware present.
- Free version includes 17 signal analysis and real-time spectrum analysis measurements.
- Get the same signal analysis capabilities found in Tektronix real-time signal analyzers on your computer, tablet, or MSO/DPO oscilloscope with Windows 7/8/10 Intel i5 or i7 64-bit operating system.

Digital Multimeters :

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DMM 6500 :

The DMM6500 offers more measurement capability including transient capture, data visualization, and analysis – at a great price.

↓ Key Features

- **0.0025%** DCV accuracy (1 year)
- 1 Msample/s digitizing, **16-bits**
- **10-channel** scan card option
- **100 nV, 10 pA, and 1 $\mu\Omega$** sensitivities
- **5-inch** (12.7 cm) touchscreen display



DMM 7510 :

With pA-level sensitivity and 1Msample/s sampling, the DMM7510 accurately measures ultra-low sleep mode currents and transmit drain currents from wireless devices.

↓ Key Features

- **0.0014%** DCV accuracy (one year)
- **1,000,000** readings/s digitizer
- **18-bit**, 1Msample/s digitizing
- **14 ppm** accuracies
- **5-inch** (12.7 cm) touchscreen display

Data Acquisition (DAQ) Systems :

Mini Selection Guide



DAQ 6510/7700 bundle :

Experience a new level of simplicity with the DAQ6510 that has a touchscreen user interface that enables faster setup time, real time monitoring of test status, and detailed data analysis on the instrument.

Key Features

- Channels **up to 80**
- Measurement Functions **up to 15**
- Plug in-switch modules **1**
- Sensitivity **100nV 10 pA 1 μOhm**
- Digitizer **1 M sample/s 16 bits**

Source Measure Units :

Mini Selection Guide



2450 :

The innovative graphical user interface (GUI) and advanced, capacitive touchscreen technology of the 2450 allow intuitive usage and minimize the learning curve to enable engineers and scientists to learn faster, work smarter, and invent easier.

Key Features

- Max Current Source/Measure Range **1A**
- Max Voltage Source/Measure Range **200V**
- Measurement Resolution (Current / Voltage) **10 fA / 10 nV**
- Max Output Power **20W**.



2470 :

This high Voltage SMU is optimized for characterizing and testing high voltage, low leakage devices, materials, and modules, like silicon carbide SiC, GaN, power MOSFETs, and much more.

Key Features

- Max Current Source/Measure Range **1A**
- Max Voltage Source/Measure Range **1000V**
- Measurement Resolution (Current / Voltage) **10 fA / 100 nV**
- Max Output Power **20W**



2460 :

This high current SMU is optimized for characterizing and testing high power materials, devices, and modules like SiC, GaN, DC-DC converters, electrochemical cells and batteries, and much more.

Key Features

- Max Current Source/Measure Range **7A**
- Max Voltage Source/Measure Range **100V**
- Measurement Resolution (Current / Voltage) **10 pA / 100 nV**
- Max Output Power **100W**



2461 :

The 2461 is optimized for characterizing and testing high power materials, devices, and modules, such as SiC, GaN, DC-DC converters, circuit protection devices, solar cells and panels, and much more.

Key Features

- Max Current Source/Measure Range **10A**
- Max Voltage Source/Measure Range **100V**
- Measurement Resolution (Current / Voltage) **1 pA / 100 nV**
- Max Output Power **1000W**

Signal Generators :

Mini Selection Guide



AFG31000 Series :

Equipped with InstaView™ technology, this is the first high-performance AFG with built-in waveform generation applications, patented real-time wave monitoring, and a modern user interface.

Key Features

- Analog channels 1-2
- Sample rate up to 2GSa/S
- Bandwidth up to 250MHz
- Vertical Resolution 14bits
- Record length 16Mpts/ch (standard) | 128Mpts/ch (optional)
- Output frequency range 25 MHz to 250 MHz



AWG5200 Series :

Get your demanding signal generation needs met with high signal fidelity and the ability to scale up to 32 or more channels with multi-unit synchronization at an affordable price.

Key Features

- Analog channels 2-8
- Sample rate up to 10 GS/s (with 2x interpolation)
- Bandwidth 2- 4 GHz
- Vertical Resolution 16 bits
- Memory 2 GS/channel
- Output frequency range 2.5 GHz - 5 GHz

Spectrum Analyzers :

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RSA306B :

It might be small, but it packs a big punch. It's loaded with features you'd expect from spectrum analyzers twice the size and twice the price. Perfect for everyday tasks.

Key Features

- Frequency Range: **9 kHz to 6.2 GHz**
- Real-Time Bandwidth **40 MHz**
- Minimum Event Duration for **100% POI 15 µs**
- SFDR (typical) **60 dBc**
- RF Connectors **Type-N**



RSA 500 :

With real-time sweeps and a 4x faster scanning capability compared to other spectrum analyzers, you won't miss signals you need to see and complete tasks faster. No compromises for even your toughest challenges.

Key Features

- Frequency Range **9 kHz to 18.0 GHz**
- Real-Time Bandwidth **40 MHz**
- Minimum Event Duration for **100% POI 15 µs**
- SFDR (typical) **70 dBc**

DC Power Supplies :

Mini Selection Guide



2281-20-26 :

The Keithley 2281S allows you to emulate the performance of a battery over a discharge cycle. This feature makes it perfect for reliably and repeatably testing product performance under any state of battery discharge.

Key Features

- Max voltage **20V**
- Max Current **6A**
- Number of models stored **14**
- Max output Resistance **100 Ω**



2231A-30-3 :

The Model 2231A-30-1 does not compromise on performance or convenience features, offering the versatility and ease of use you need, so it can be the only DC power supply on your bench.

Key Features

- Max voltage **30V**
- Max Current **3A**
- Connectivity **USB**
- Number of outputs **3**



2280S -32-6 :

This bench power supply offers up to 6½-digit resolution for characterizing small changes in load currents with confidence.

Key Features

- Max voltage **32V**
- Max Current **6A**
- Connectivity **USB, GPIB, LAN**
- Number of outputs **1**
- Output noise power **up to 192W**

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