



2 Series MSO vs. Keysight 2000 X-series

COMPETITIVE FACT SHEET

Visualization & Usability

Tektronix 2 Series MSO

- ✓ 10.1-inch WXGA (1280 x 800) resolution display with touchscreen
- ✓ Touchscreen capabilities with intuitive control commands
- ✓ Ability to view multiple waveform slices in stacked mode
- ✓ Common user interface across the scope family



Keysight 2000 X-series

- ✗ 8-inch WVGA (800 x 480) resolution display
- ✗ No touchscreen capabilities
- ✗ Waveform view is limited to one display window
- ✗ Different user interfaces across scope family



Portability & Physical Characteristics

Tektronix 2 Series MSO

- ✓ **Battery:** Optional battery pack can power the instrument for up to 8 hours
- ✓ **Weight:** 4 lbs standalone and 8 lbs total with battery pack and two batteries
- ✓ **Footprint:** 8.26" x 13.54" x 1.59" (H x W x D) dimensions allows for more desk space
- ✓ **Flexibility:** VESA Mount allows for the scope to be positioned in many ways

Keysight 2000 X-series

- ✗ **Battery:** There is no battery support
- ✗ **Weight:** 8.5 lbs is heavier than the 2 Series MSO with or without the battery pack
- ✗ **Footprint:** 8" x 15" x 5.6" (H x W x D) dimensions takes up more space on the lab bench
- ✗ **Flexibility:** No VESA Mount

Key Specifications Comparison

	Tektronix 2 Series MSO		Keysight 2000 X-series	
Analog Channels	✓	2, 4	✓	2, 4
Digital Channels	✓	16 (with option 2-MSO)	✗	8 (MSO model or upgrade)
Bandwidth	✓	70, 100, 200, 350, 500 MHz	✗	70, 100, 200 MHz
Max. Sample Rate	✓	1.25 GS/s (all channels on) 2.5 GS/s (half channels on)	✗	1 GS/s (all channels on) 2 GS/s (half channels on)
Max. Record Length (All channels on)	✓	10 M points	✗	1 M points
Maximum Input Voltage	✓	CATII 300 Vrms	✗	CATI 300 Vrms
Standard Trigger Types	✓	Edge, Pulse Width, Runt, Timeout, Logic, Setup & Hold, Rise/Fall Time, Parallel Bus	✓	Edge, Edge then Edge, Pulse Width, Pattern, Video, Runt, Rise/Fall Time, Nth Edge Burst
Arbitrary Function Generator (AFG)	✓	1-channel, 50 MHz	✗	1-channel, 20 MHz
Digital Pattern Generator (DPG)	✓	4 channels, 4k memory length, up to 25 Mbps	✗	No



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Productivity

Tektronix 2 Series MSO

- ✓ **Help:** Shows graphical images and explanatory text to provide quick feature overviews. Application notes and more information available on website
- ✓ **Feature Control:** Allows disabling of autoset, cursors, and automated measurements
- ✓ **Front Panel:** Simplified front panel with LED color coded ring lights
- ✓ **Highly Customizable Software:** Change font sizes, colors, autoset, window sizes, and much more
- ✓ **PC Analysis:** Perform advanced analysis using TekScope™, with same UI as 2 Series



Keysight 2000 X-series

- ✗ Only simple introduction available with help button
- ✗ Only Autoset can be disabled
- ✗ Complicated front panel with no LED color coded ring lights
- ✗ Customize measurement result window
- ✓ Analyze data using BenchVue software



Measurement

Tektronix 2 Series MSO

- ✓ Display unlimited measurements either as measurement badge or collectively in a results table
- ✓ One set of cursors per display, can be enabled in any window simultaneously
- ✓ Perform serial protocol triggering and analysis on the most common buses (requires 2-SERIAL)
- ✓ Unlimited math waveforms and reference signals
- ✓ Measurement statistics available
- ✓ Gate both measurements and FFTs
- ✓ 37 automatic measurements
- ✓ Frequency Response Analysis (Bode plot, requires 2-SOURCE)

Keysight 2000 X-series

- ✗ Maximum of 4 active measurements at once
- ✗ One set of cursors limited to only one source
- ✓ Serial triggering and decoding available with additional license
- ✗ Up to 4 math waveforms and up to 2 reference signals
- ✗ No measurement statistics
- ✗ No measurement or FFT gating
- ✗ 25 automatic measurements
- ✗ No Bode plot

Connectivity

Tektronix 2 Series MSO

- ✓ Two USB 2.0 HOST ports
- ✓ One USB DEVICE port
- ✓ Ethernet port for network connectivity
- ✓ TekDrive™ is natively integrated as a T&M collaborative data workspace that allows for seamless data access anywhere and much more



Keysight 2000 X-series

- ✓ Two USB 2.0 HOST ports
- ✓ One USB DEVICE port
- ✗ Ethernet port requires additional upgrade
- ✗ Virtual front panel allows for remote control of scope from both PC and tablet devices

