MSO/DPO2000B Series vs. Rigol DS2000 Series
Competitive Fact Sheet

Navigation and Search

Tektronix MSO/DPO2000B Series

✓ Wave Inspector® Pan/Zoom controls make easy work of scrolling through long records.

✓ Play/Pause button scrolls the waveform across the screen automatically.

✓ Search/Mark controls enable you to search for events of interest, mark them, then navigate through the record mark-by-mark.
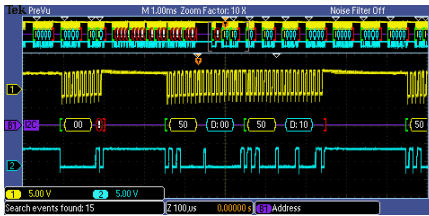
Rigol DS2000 Series

✗ No search and mark functions to find events of interest and mark them

✗ Cannot automatically play the waveform in zoom mode.

Serial Triggering and Decode

Tektronix MSO/DPO2000B Series

✓ 2 and 4 analog channels (16 digital channels on MSO) available for serial inputs

✓ Optional serial bus support: I2C, SPI, RS232, CAN, LIN

✓ 2 buses available for decoding I2C, SPI, RS232, CAN, LIN

✓ Wave Inspector® automatically searches for and marks user-defined events on packet content.

Rigol DS2000 Series

✗ Only 2 channels available for serial inputs.

✗ Optional serial: I2C, SPI, RS232

✗ 2 buses for decoding RS232 only

✗ No serial search offered.

Key Specifications Comparison

		Tektronix MSO/DPO2000B Series		Rigol DS2000 Series
Channels Analog	✓	2, 4	✗	2
Channels Digital	✓	16 (MSO only)	✗	No equivalent feature
Bandwidth	✓	70, 100, 200 MHz	✓	70, 100, 200 MHz
Max. Record Length (All analog channels on)	✗	1 M points	✓	14 M points
Max. Sample Rate (All channels on)	✓	1 GS/s	✓	1 GS/s
Serial Triggering and Decode (Optional)	✓	I2C, SPI, CAN, LIN, RS232/422/485/UART	✗	I2C, SPI, RS-232/UART
Measurements	✓	29 automatic measurements	✗	22 automatic measurements
Navigation and Search	✓	Wave Inspector controls	✗	Multiplexed zoom controls, no search
Display Size (resolution)	✗	7.0-inch wide format (480 x 234)	✓	8-inch standard format (800x480)
Warranty	✓	5-year	✗	3-year

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Advanced Probe Interface

Tektronix MSO/DPO2000B Series: TekVPI probe interface

✓ Probe menu on oscilloscope interacts directly with probe

✓ Enables direct connection to current probes (including ac/dc), differential probes, and single-ended active probes.

✓ Enables simpler deskewing of probes

Rigol DS2000 Series: traditional low cost probe interface

✗ No communication between oscilloscope and probes

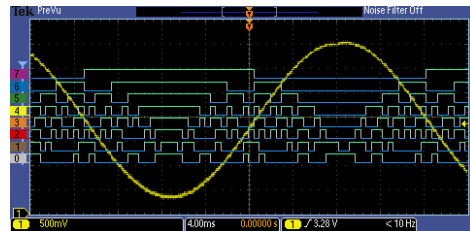✗ Cannot connect to current probes or active probes directly

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MSO Series Mixed Signal Debug

Tektronix MSO2000B Series

✓ View up to 4 analog, 16 digital, and 2 bus waveforms, all time-correlated.

✓ Define parallel or serial buses.

✓ Logical highs are identified in **Green** and lows in **Blue.**

✓ Group waveforms and threshold settings

Rigol DS2000 Series

✗ No equivalent feature, only has 2 analog channels.

Noise Filter

Tektronix MSO/DPO2000B Series

✓ FilterVu™- Adjustable low-pass noise filter

✓ Filters out the unwanted noise while still capturing glitches and signal details up to the full bandwidth of the oscilloscope.

✓ Display 2 waveforms: a waveform that can be filtered and a glitch captured waveform

Rigol DS2000 Series

✗ Fixed 20MHz bandwidth limit filter. Useful high frequency signal could be filtered out.

✗ Only one waveform can be shown on the display.

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