

MSO/DPO2000B Series vs. Agilent MSO/DSO2000 X-Series

Competitive Fact Sheet

Long Record Length Navigation and Search

Tektronix MSO/DPO2000B Series

- ✓ Standard 1 Million point record per channel.
- ✓ Wave Inspector® dedicated Pan/Zoom controls make easy work of scrolling through long records.
- ✓ Search/Mark controls enable you to search for events of interest, mark them, then navigate through the record mark-by-mark.



Agilent MSO/DSO2000 X-Series

- ✗ Standard 100,000 point record. Reduced to 50,000 when turn on the interleaved channel.s
- ✗ Zoom control is multiplexed with horizontal scale.
- ✗ Search ability only on serial event on analog channels.



Advanced Probe Interface

Tektronix MSO/DPO2000B Series



- ✓ Probe menu on oscilloscope interacts directly with probe
- ✓ Direct connection to current probes (including ac/dc), differential probes, and single-ended active probes.
- ✓ Enables simpler deskewing of probes

Agilent MSO/DSO2000X



- ✗ No oscilloscope and probe communications
- ✗ Cannot connect to current probes and active probes directly

Key Specifications Comparison

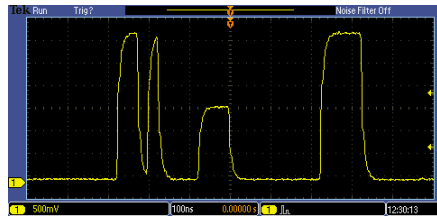
	Tektronix MSO/DPO2000B Series		Agilent MSO/DSO2000 X-Series	
Channels Analog	✓	2, 4	✓	2, 4
Channels Digital (MSO only)	✓	16	✗	8
Bandwidth	✓	70, 100, 200 MHz	✓	70, 100, 200 MHz
Max. Sample Rate (All channels on)	✓	1 GS/s	✓	1 GS/s
Waveform update rate	✗	50,000 wfm/s	✓	500,000 wfm/s
Standard Record Length (All analog channels on)	✓	1 M points	✗	50 k points (1 M points optional)
Set of Triggers	✓	Edge/ Pulse width/ Runt/ Logic/ Setup&hold/ Rise/Fall Time/ Video/ Bus	✗	Edge/ Pulse width/ Pattern/ Video/ Bus
Navigation and Search	✓	Dedicated Wave Inspector zoom controls, Search analog, digital and serial bus.	✗	Multiplexed zoom controls, Search only on serial data
Integrated Function Generator	✗	No	✓	Optional
Display Size (resolution)	✗	7.0-inch wide format (480 x 234)	✓	8.5-inch wide format (800 x 480)
Serial Bus Decode	✓	On both digital and analog channels	✗	Not on digital channels

MSO/DPO2000B Series vs. Agilent MSO/DSO2000 X-Series

Competitive Fact Sheet

Embedded System Debugging – Triggering

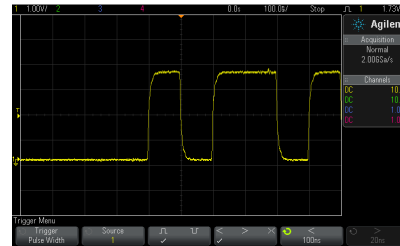
Tektronix MSO/DPO2000B Series



Quickly trigger directly on Runt.

- ✓ 8 major trigger types available, and over 125 trigger combinations possible.
- ✓ Runt, Setup/Hold, Rise/Fall-time trigger types reduce digital debugging time.

Agilent MSO/DSO2000 X-Series



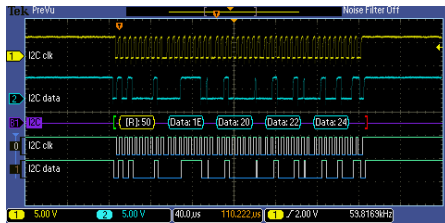
No Runt trigger

- ✗ Only 5 trigger types available.
- ✗ No Runt, Setup/Hold, Rise/Fall trigger types to help with digital debugging.

MSO Series Mixed Signal Debug

Tektronix MSO2000B Series

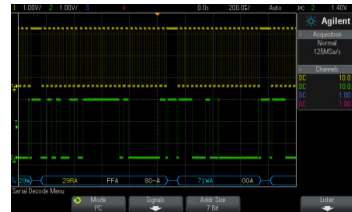
- ✓ View up to 4 analog, 16 digital, and 2 bus waveforms, time-correlated.
- ✓ Serial bus decode on both analog and digital channels



Serial bus decode on both analog and digital channels

Agilent MSO2000 X-Series

- ✗ View up to 4 analog, 8 digital, and 1 bus waveforms
- ✗ No serial bus decode on digital channels
- ✗ Serial decoding & digital channels could not be on at same time

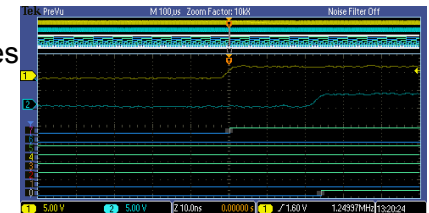


Users has to sacrifice the few available analog channels to look at serial signals

Record Length

Tektronix MSO/DPO2000B Series

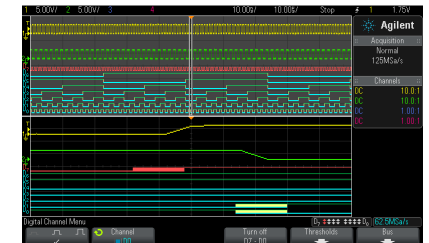
- ✓ Standard 1 Mpoint record length on all channels allows fine detail capture over long time periods.
- ✓ Full record length in run mode.



Detailed signal information available, at long record length and high sample rate.

Agilent MSO/DSO2000 X-Series

- ✗ Standard 100 kpoint record length divides among channels in a pair, providing less detail when more channels are on.
- ✗ Reduced to half record length and sample rate in run mode



Signal details are lost with short record length and low sample rate.