

# MDO4000B Series vs. Agilent/Keysight MSOX4000A Series

## Know the True Cost of Your Scope

Tektronix mainstream oscilloscopes simplify and speed EVERY stage of Debug – Discover, Capture, Search, Analyze. The complete packages excel, not just individual features. When comparing oscilloscopes, check the details of the operation and look for “hidden” costs that prevent you from getting the versatility in performance you need to complete the wide-variety of fundamental measurement challenges you have today and in the future.



Tektronix  
MDO4000B Series



Agilent  
MSOX4000A Series

Options	Cost	Options	Cost
<b>Built-in Spectrum Analyzer:</b> <ul style="list-style-type: none"> <li>Frequency Range: 9 kHz to 3 GHz or 9 kHz to 6 GHz</li> <li>Spurious Free Dynamic Range: 65 dB</li> <li>Capture synchronized analog, digital and RF signals for a complete, time-correlated system view of your device</li> </ul>	<b>Included</b>	<b>No Built-in Spectrum Analyzer Available</b> (And no, FFT of the oscilloscope analog input is not the same. Learn why by reading <a href="#">MDO4000 vs. Regular Scope FFTs.</a> )	> \$13,000 for standalone spectrum analyzer
<b>Record Length: 20 Mpoints</b> <ul style="list-style-type: none"> <li>Easy to use record length management, simply select for 1k, 10k, 100k, 1 M, 10 M, 20 Mpoints. The selected record length is clearly shown on screen and the setting is the same whether 1, 2, 3, 4 and logic channels are used</li> <li>Measurement and math use the full selected record length</li> </ul>	<b>Included</b>	<b>No ability to extend record length above 4 Mpoints</b> <ul style="list-style-type: none"> <li>No record length readout and no controls for directly setting the record length</li> <li>Record length varies depending on s/div setting, how many and which channels are on, and single or continuous acquisition</li> <li>Measurements only use the data displayed; so readings change when zoomed in and out</li> </ul>	Not Available (Cannot match 20 Mpoint record length at any cost)
<b>Probes with the performance of an active probe BUT the dynamic range of a passive probe:</b> <ul style="list-style-type: none"> <li>3.9 pF input capacitance at the probe tip – low loading</li> <li>300 V dynamic range</li> <li>1 GHz bandwidth for 1 GHz instruments</li> <li>Automated compensation</li> </ul>	<b>Included</b>	<b>Typical passive probes:</b> <ul style="list-style-type: none"> <li>9.5 pF input capacitance</li> <li>300 V dynamic range</li> <li>700 MHz bandwidth for 1 GHz instruments</li> <li>Manual low frequency compensation</li> </ul>	\$4,216 for active probes, for 4 channels
<b>Protocol Analyzer supports up to 4 serial buses simultaneously; Logic Analyzer supports up to 16 individual logic families</b>	<b>Included</b>	<b>Protocol Analyzer supports up to 2 serial buses simultaneously, Logic Analyzer only supports 2 logic families</b>	Not available. Need another instrument to analyze more than 2 buses simultaneously.
<b>Total Incremental Cost</b>	-	<b>Total Incremental Cost</b>	<b>&gt; \$17,000</b>

# DPO4000B Series vs. Agilent/Keysight DSOX4000A Series

## Know the True Cost of Your Scope

Tektronix mainstream oscilloscopes simplify and speed EVERY stage of Debug – Discover, Capture, Search, Analyze. The complete packages excel, not just individual features. When comparing oscilloscopes, check the details of the operation and look for “hidden” costs that prevent you from getting the versatility in performance you need to complete the wide-variety of fundamental measurement challenges you have today and in the future.



**Tektronix**  
DPO4000B Series



**Agilent**  
DSOX4000A Series

Options	Cost	Options	Cost
<b>Record Length: 20 M points</b> <ul style="list-style-type: none"> <li>Easy to use record length management, simply select for 1k, 10k, 100k, 1 M, 10 M, 20 Mpoints. The selected record length is clearly shown on screen and the setting is the same whether 1, 2, 3, 4 and logic channels are used</li> <li>Measurement and math use the full selected record length</li> </ul>	<b>Included</b>	<b>No ability to extend record length above 4 M points:</b> <ul style="list-style-type: none"> <li>No record length readout and no controls for directly setting the record length</li> <li>Record length varies depending on s/div setting, how many and which channels are on, and single or continuous acquisition</li> <li>Measurements only use the data displayed; so readings change when zoomed in and out</li> </ul>	Not Available (Cannot match 20 Mpoint record length at any cost)
<b>Probes with the performance of an active probe BUT the dynamic range of a passive probe:</b> <ul style="list-style-type: none"> <li>3.9 pF input capacitance at the probe tip – low loading</li> <li>300 V dynamic range</li> <li>1 GHz bandwidth for 1 GHz instruments</li> <li>Automated compensation</li> </ul>	<b>Included</b>	<b>Typical passive probes:</b> <ul style="list-style-type: none"> <li>9.5 pF input capacitance</li> <li>300 V dynamic range</li> <li>700 MHz bandwidth for 1 GHz instruments</li> <li>Manual low frequency compensation</li> </ul>	\$4,216 for active probes, for 4 channels
<b>Protocol Analyzer supports up to 4 serial buses simultaneously</b>	<b>Included</b>	<b>Protocol Analyzer supports up to 2 serial buses simultaneously</b>	Not available. Need another instrument to analyze more than 2 buses simultaneously.
<b>Total Incremental Cost</b>	-	<b>Total Incremental Cost</b>	<b>&gt; \$4,000</b>