MDO4000B Series vs. Rohde & Schwarz FSC Spectrum Analyzer Competitive Fact Sheet



Mixed Domain Oscilloscope

- 4 analog channels
- 16 digital channels
- Integrated spectrum analyzer
 - Dedicated front panel controls
 - Dedicated N connector

Specifications	Tektronix MDO4000B-3		Rohde & Schwarz FSC3	
Frequency Range		9 kHz - 3 GHz		9 kHz - 3 GHz
Capture / Analysis Bandwidth	✓	3 GHz	×	3 MHz
Phase Noise at 500 MHz CF 10 kHz offset 100 kHz offset	✓	-114 dBc/Hz, -117 dBc/Hz (typical) -116 dBc/Hz, -119 dBc/Hz (typical)	×	Not specified -100 dBc/Hz, -110 dBc/Hz (typical)
Displayed Average Noise Level (DANL) at 1 GHz	✓	-147 dBm/Hz , -149 dBm/Hz (typical)	×	-141 dBm/Hz, -146 dBm/Hz (typical)
2nd Harmonic Distortion at 1 GHz (0 dB atten.)		-60 dBc, -65 dBc (typical)		-60 dBc
3rd Order Intermodulation Distortion at 1 GHz		-62dBc, -65 dBc (typical)		-60 dBc, -70 dBc (typical)
Other Input Related Spurious Response	✓	-60 dBc, -65 dBc (typical) w/ exceptions to -55 dBc, -60 dBc (typical)	×	-60 dBc with exceptions to -50 dBc
Residual Response	×	-85 dBm w/ exceptions at -78 dBm	✓	-90 dBm
Display Size and Resolution	✓	10.4" XGA	×	5.7" VGA
Dimensions (HxWxD in inches)	✓	9.0 x 17.3 x 5.8	x	6.2 x 9.2 x 13.8
Weight	x	11 lbs.	✓	9.9 lbs.
Warranty	✓	3 years	x	1 year

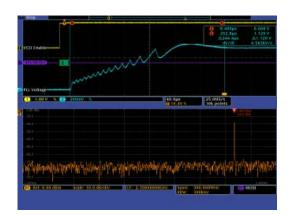


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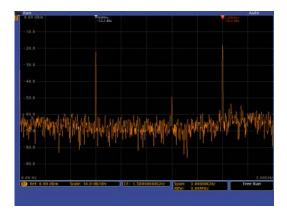
MDO4000B Capabilities not Available on Rohde & Schwarz FSC

- 4 analog channels
- 16 digital channels
- Serial / Parallel bus decode
- Capture bandwidth wide enough for modern RF signals
- Time correlated views of analog, digital, serial / parallel buses and RF signals for complete system visibility. RF signals include:
 - Spectrum shown in Frequency Domain
 - Amplitude, Frequency, and Phase vs. Time traces shown in Time Domain



Correlating RF to other system signals

The most common application is making timing measurements from control logic (often serial or parallel bus commands) to when the RF output changes take effect.



Exceptionally Wide Capture Bandwidth

With 3 GHz of capture bandwidth and long RF acquisition times, the MDO is the ultimate product for debugging modern wideband, time varying RF signals.

