ROHDE&SCHWARZ

Make ideas real

R&S®RTB2000 versus Tektronix 2 Series MS0



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Still the better choice

With better performance, a better and more practical interface and better upgradeability, the R&S®RTB2000 is still a better choice than the new Tektronix 2 Series MSO oscilloscope.

Your benefit	Features	
10-bit ADC: four times more vertical resolution	The proprietary Rohde & Schwarz 10-bit ADC used in the R&S®RTB2000 allows four times more vertical resolution compared to the standard 8-bit ADC in the Tektronix 2 Series MSO. Finer voltage measurements become important as the voltage levels decrease.	
Waveform update rate	The R&S®RTB2000 from Rohde & Schwarz offers a fast standard waveform update rate and with 300 000 waveforms/s in fast segmented memory mode, it outperforms its class competitor the Tektronix 2 Series MSO.	
All options are available	As a fully developed product, all options and bandwidth updates are available when ordering the instrument. This is a significant advantage over the Tektronix 2 Series MSO, for which most of the options are not available yet.	

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For prices and more information, visit www.rohde-schwarz.com/product/RTB2000

Parameter	R&S®RTB2000	Tektronix 2 Series MSO
Acquisition system		
Channels	2/4 for all models	2/4 for all models
Bandwidth	70/100/200/300 MHz (upgradeable)	70/100/200/350/500 MHz (upgradeable)
ADC resolution	10-bit	8-bit
Max. real-time sampling rate	2.5 Gsample/s	2.5 Gsample/s
Standard memory depth	10 Mpts per channel 20 Mpts interleaved	10 Mpts per channel
Segmented memory depth/history mode	optional – 160 Mpts	-
Waveform update rate	50 000 waveforms/s standard 300 000 waveforms/s in fast segmented memory mode	not specified
MSO sampling rate	1.25 Gsample/s, 16 digital channels	not yet specified/available, 16 digital channels
Timebase accuracy	2.5 ppm	25 ppm
Input sensitivity	1 mV/div to 5 V/div	1 mV/div to 10 V/div
X-in-1 oscilloscope		
Serial decode options	I ² C, SPI, UART/RS-232/422/485, CAN, LIN	I ² C, SPI, UART/RS-232/422/485, CAN, LIN, CAN FD, SENT
Generator option	function and arbitrary, 4-bit pattern	function and arbitrary, 4-bit pattern (supported in future SW release)
Frequency response analysis (Bode plot)	Yes, optional	-
Multifunction	DVM, trigger counter, standard	DVM, trigger counter, option
Form factor		
Display	10.1" (1280 × 800) capacitive touchscreen	10.1" (1280 × 800) capacitive touchscreen
Dimensions (W \times H \times D)	390 mm × 220 mm × 152 mm	344 mm × 210 mm × 40.4 mm (> 120 mm depth with instrument stand)
Weight	2.5 kg	1.8 kg (instrument only) 3.6 kg (including battery pack)
Power supply	integrated — only standard power cord required	external AC/DC converter

1 year

Warranty

3 years

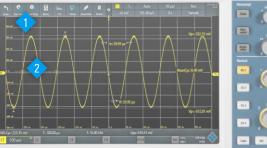
Still the better interface

Quick finger annotation for fast operation and documentation

Still the better performance

Frequency response analysis option (Bode plot)

The R&S®RTB2000 is the best in its class with the following features:





Floating menu to fully utilize the

display to view waveforms

- Configurable toolbar (including undo and redo) for fast access to functions
 - Grid annotations for easy determination of vertical and horizontal values
- Mechanical front panel buttons versus membrane keys on Tektronix 2 Series MSO

Quick measure button to automatically measure and display peak-to-peak voltage, positive peak, negative peak, rise time, fall time and other key results at the push of a button

Additional practical usability advantages of the R&S®RTB2000

- ► The R&S®RTB2000 stands on its own. In comparison, the Tektronix 2 Series MSO requires a separate stand with an external power supply
- Mouse support and gesture support on the touchscreen

Advantages of the R&S®RTB2000 over the Tektronix 2 Series MSO



X Higher timebase accuracy







More ADC resolution

Still the better investment

When it comes to investment protection, the R&S®RTB2000 is again class leading. Buy only what you need today and upgrade later as your needs grow. Post-purchase upgrades are available for:

- Bandwidth up to 300 MHz
- Digital channels (mixed signal option)
- ► Serial triggering and decoding of I²C, SPI, UART/RS-232/422/485, CAN/LIN
- ► History mode with up to 160 Msample memory
- Function, arbitrary and pattern generator

Education mode

High ADC resolution

High waveform update rate

► Logic analysis with the MSO option

The R&S®RTB2000 provides accurate and fast results. Its modern multifunction capabilities, including a built-in generator, make it the perfect educational tool.

For classroom training, the education mode deactivates comfort functions such as autoset, guick measure and automatic measurements.

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Sensitivity

Higher sensitivity



