ROHDE&SCHWARZ
Make ideas real

R&S®RTB2000
versus Tektronix 2 Series MSO

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.
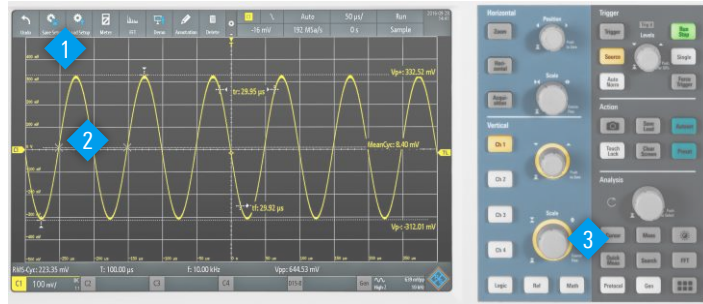
Your benefit	Features
10-bit ADC: four times more vertical resolution	The proprietary Rohde & Schwarz 10-bit ADC used in the R&S®RTB2000 allows four times more vertical resolution compared to the standard 8-bit ADC in the Tektronix 2 Series MSO. Finer voltage measurements become important as the voltage 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.

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
X-in-1 oscilloscope		
Serial decode options	I²C, SPI, UART/RS-232/422/485, CAN, LIN	I²C, 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 × H × 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)
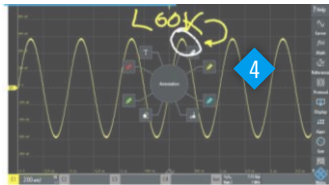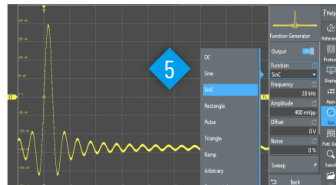| Power supply	integrated – only standard power cord required	external AC/DC converter
Warranty	3 years	1 year

Still the better interface

1. **Configurable toolbar** (including undo and redo) for fast access to functions

2. **Grid annotations** for easy determination of vertical and horizontal values

3. **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

4. **Quick finger annotation** for fast operation and documentation

5. **Floating menu** to fully utilize the display to view waveforms

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

Still the better performance

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

► High ADC resolution
► High waveform update rate
► Frequency response analysis option (Bode plot)
► Logic analysis with the MSO option

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

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

10 x Higher timebase accuracy

3 x Longer warranty

4 x More ADC resolution

6 x Faster boot-up

Education mode

The R&S®RTB2000 provides accurate and fast results. Its modern multifunction capabilities, including a built-in generator, make it the perfect educational tool.
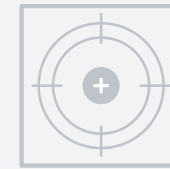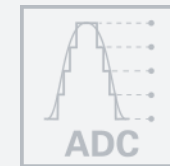
For classroom training, the education mode deactivates comfort functions such as autoset, quick measure and automatic measurements.