

TBS2000B Series vs. R&S RTB2000 Series

COMPETITIVE FACT SHEET

Visualization

Tektronix TBS2000B Series



R&S RTB2000 Series



- ✓ 9" WVGA display with 15 horizontal grids, 100% waveform display with menu-off.
- ✗ 5M record length to capture long time windows.
- ✓ Small form factor 2-channel instrument reduces bench footprint.
- ✗ 10.1" WXGA with 12 horizontal grids.
- ✓ 10M record length as standard.
- ✗ No reduction in size on 2-channel instruments.

Key Specifications Comparison

	Tektronix TBS2000B Series	R&S RTB2000 Series
Analog Channels	✓ 2, 4	✓ 2, 4
Bandwidth	✗ 70, 100, 200 MHz	✓ 70, 100, 200, 300 MHz
Max. Sample Rate (All channels on)	✗ 1GS/s	✓ 1.25 GS/s
Max. Record Length (All channels on)	✗ 5 M points	✓ 10 M points
Time-base Range	✓ 1ns/div to 100s/div (All Models)	✗ 5ns/div to 50s/div (70&100MHz) 2ns/div to 50s/div (200MHz)
Automated Measurements	✓ 32	✓ 32
Trigger Types	✗ Edge, Pulse width, Runt	✓ Edge, Pulse width, Pattern, Video, Runt,

Probes and Measurements

Tektronix TBS2000B Series



- ✓ TekVPI® probe interface supports active, differential, and current without the need for external power. Probes communicate with TBS2000B.
- ✓ 32 automatic measurements can be categorized and laid out in one page for straight-forward selection.
- ✓ Cursor measurement with on-waveform readouts.
- ✓ Autoset, Cursors and measurements can be disabled individually to teach basic concepts.

R&S RTB2000 Series



- ✗ Standard BNC interface. No power provided by the scope, and no auto scaling.
- ✗ 32 automatic measurements are selected from a long list. You are not able to see them all at once.
- ✗ Cursor measurement readouts are off to the side of the screen.
- ✗ Only Autoset can be disabled.

Safety and Reliability

Tektronix TBS2000B Series

- ✓ 5 years of warranty.
- ✓ No fans in 2-channel models, for low noise operation.
- ✓ Max. Input Voltage: CATII 300Vrms.

R&S RTB2000 Series

- ✗ 3 years of warranty.
- ✗ Fans in all models.
- ✓ Max. Input Voltage: CATII 300Vrms.

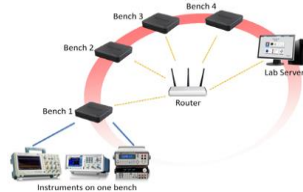
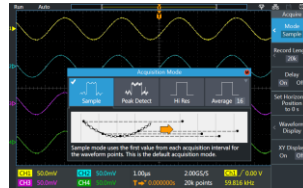
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Tools and Applications Designed Especially for Education

Tektronix TBS2000B Series

- ✓ **HelpEverywhere** – Shows real-time graphic instructions for complex settings.
- ✓ **ScopeIntro** – Built-in handbook with detailed introduction of oscilloscope and overview of TBS2000B operation.
- ✓ **Courseware** – Lab exercises may be downloaded for free and may be loaded and viewed on the oscilloscope.
- ✓ **TekSmartLab** – TBS2000B is fully compatible with TekSmartLab software for presetting lab stations and monitoring student progress from a professor's workstation.



R&S RTB2000 Series

- ✗ Simple help section.
- ✗ No built-in oscilloscope or operation guide.
- ✗ Predefined labs not available.
- ✓ CDS Campus Dashboard enables control of bench instruments, updating firmware and pushing setups.

Remote Connectivity

Tektronix TBS2000B Series



- ✓ First basic oscilloscope family with Wi-Fi dongle support.
- ✓ Two USB ports on rear panel: one USB HOST for flash drive or Wi-Fi dongle; one USB DEVICE for remote control via PC.
- ✓ LAN port included standard. TBS2000B can be remotely accessed by any device on the same network equipped with a web browser.

R&S RTB2000 Series



- ✗ No wireless connectivity.
- ✗ One USB port on rear panel: one USB DEVICE for remote control via PC.
- ✓ LAN port included standard.

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