TBS2000 Series vs. R&S HMO Compact Series

COMPETITIVE FACT SHEET

Visualization

Tektronix TBS2000 Series

- ✓ 9" WVGA display with 15 horizontal grids
- ✓ 20M record length to capture long time windows

R&S HMO Compact Series

- ✗ 6.5" VGA display with 12 horizontal grids
- ✗ 2M record length only

Probe and Measurement

Tektronix TBS2000 Series

- ✓ TekVPI probe interface supports active, differential, and current without the need for external power. Probes communicate with TBS2000
- ✓ 32 automatic measurements can be categorized and laid out in one page for straight-forward selection
- ✓ Cursor measurement with on-waveform readouts

R&S HMO Compact Series

- ✗ Standard BNC interface. No power provided by the scope, and no communication
- ✗ 20 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 bottom of the screen

Key Specifications Comparison

	Tektronix TBS2000 Series		R&S HMO Compact Series	
Analog Channels	✓	2, 4	✓	2, 4
Bandwidth	✗	70, 100 MHz	✓	70, 100, 150, 200 MHz
Max. Sample Rate (All channels on)	✗	500 MS/s	✓	1 GS/s
Max. Record Length (All channels on)	✓	20 M points	✗	2 M points
Time-base Range	✓	2ns/div to 100s/div (70&100MHz)	✗	2ns/div to 50s/div
Auto Measurement	✓	32	✗	20
Trigger Types	✓	Edge, Pulse width, Runt	✓	Edge, Pulse width, Logic, Video

Safety and Reliability

Tektronix TBS2000 Series

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

R&S HMO Compact Series

- ✗ 3 years of warranty
- ✓ Temperature-controlled fan in all models
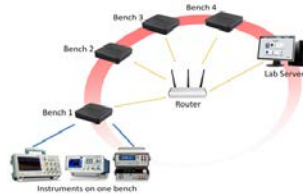- ✗ Max. Input Voltage: 200Vp

Tektronix

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Education for Everybody

Tektronix TBS2000 Series

- ✓ **HelpEverywhere** – Shows real-time instructions for key operations like triggering or measuring

- ✓ **ScopeIntro** – Built-in knowledge book with detailed introduction of oscilloscope and current models

- ✓ **Courseware** – Lab exercises may be downloaded for free and may be loaded and viewed on the oscilloscope

- ✓ **TekSmartLab** – TBS2000 is fully compatible with TekSmartLab software for presetting lab stations and monitoring student progress from a professor's workstation

R&S HMO Compact Series

- ✗ No instructions for key operations

- ✗ Only lab guide and tutorial in CD or on R&S website

- ✗ Lab exercises may not be loaded or viewed on the oscilloscope

- ✗ No solution for presetting lab stations or monitoring student progress during labs from a professor's workstation

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Remote Connectivity

Tektronix TBS2000 Series

- ✓ First basic oscilloscope 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 with LXI compatibility is included. TBS2000 can be remotely accessed on any devices on the same network with a web browser

R&S HMO Compact Series

- ✗ No wireless connectivity

- ✓ Two USB ports on rear panel: one USB HOST for flash drive; one USB DEVICE for remote control via PC

- ✗ No LAN interface, no LXI compatibility