TBS2000 Series vs. GW-Instek GDS2000A Series

COMPETITIVE FACT SHEET

Visualization

Tektronix TBS2000 Series

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

GW-Instek GDS2000A Series

- ✗ 8" WVGA display with 10 horizontal grids
- ✗ 2M record length

Probe and Measurement

Tektronix TBS2000 Series

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

GW-Instek GDS2000A Series

- ✗ Standard BNC interface. No power provided by the scope, and no communication
- ✗ 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		GW-Instek GDS2000A Series	
Analog Channels	✓	2, 4	✓	2, 4
Bandwidth	✗	70, 100 MHz	✓	70, 100, 200, 300 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)	✓	1ns/div to 100s/div
Auto Measurement	✗	32	✓	36
Trigger Types	✗	Edge, Pulse width, Runt	✓	Edge, Pulse width, Video, Runt, Rise & Fall, Alternate, Time out, Event-Delay

Safety and Reliability

Tektronix TBS2000 Series

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

GW-Instek GDS2000A Series

- ✗ 3 years of warranty
- ✗ Fans in all models
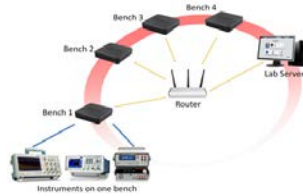- ✗ Max. Input Voltage: 300Vrms [no published CAT rating]

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

GW-Instek GDS2000A Series

- ✗ No instructions for key operations

- ✗ Only lab guide and tutorial in CD or on GW-Instek 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

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 by any device on the same network equipped with a web browser

GW-Instek GDS2000A Series

- ✗ No wireless connectivity

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

- ✗ LAN is optional, no LXI compatibility

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