

TBS1000 Series vs. GW Instek GDS-1000(A)-U Series

Competitive Fact Sheet

Ease of Use

Tektronix TBS1000 Series

- ✓ No menu has more than two pages.
- ✓ Indexed, context-sensitive help system with hyperlinks works like a built-in manual
- ✓ Shortcut buttons for Reference Waveform, Default Setup, Horizontal Set to Zero, Trigger Set to 50%
- ✓ Probe Check button to quickly verify that the voltage probe is operating properly
- ✓ Trig View button to see how the trigger settings affect the trigger signal
- ✓ AutoRange button adjusts controls to produce a usable display of the input signal



GW Instek GDS-1000(A)-U Series

- ✗ Menus can have up to three pages. For example, the utility menu includes 9 different settings.
- ✗ No help index and no hyperlinks make it difficult to jump between topics
- ✗ No shortcut buttons for Reference Waveform, Default Setup, Horizontal Set to Zero, Trigger Set to 50%
- ✗ No probe check function
- ✗ No trig view function
- ✗ No autorange function



Portability and Work Environment

Tektronix TBS1000 Series

- ✓ 300V_{RMS} CAT II. Rated for measurements on circuits directly connected to mains
- ✓ 2.0 kg weight
- ✓ Silent operation
- ✓ Operating altitude: <3000 meters
- ✓ 30 W max power consumption

GW Instek GDS-1000(A)-U Series

- ✗ 300V_{pk}(DC+AC peak) CAT II. Rated for measurements on circuits directly connected to mains
- ✗ 2.5 kg weight
- ✗ Contains a cooling fan
- ✗ Operating altitude: <2000 meters
- ✗ 40 W max power consumption

Key Specifications Comparison

	Tektronix TBS1000 Series		GW Instek GDS-1000(A)-U Series	
Channels	✓	2	✓	2
Bandwidth	✓	25, 40, 60, 100, 150 MHz	✓	1000-U: 50, 70, 100MHz 1000A-U: 70, 100, 150MHz
Max. Sample Rate (All channels on)	✓	BW ≤ 40MHz: 500 MS/s BW > 40MHz: 1 GS/s	✗	1000-U: 250 MS/s 1000A-U: 500 MS/s
Max. Record Length (All channels on)	✗	2.5k points	✓	1000-U: 4k points 1000A-U: 1M points
Persist Time	✓	OFF, 1sec, 2sec, 5 sec, infinite	✗	OFF, On
Included software	✓	OpenChoice	✓	Freewave
Interfaces	✓	USB, Optional GPIB	✗	USB

TBS1000 Series vs. GW Instek GDS-1000(A)-U Series

Competitive Fact Sheet

Higher Sample Rate/Bandwidth Ratio

The TBS1000 series offers higher sample rate/bandwidth ratio, reconstruct waveforms more accurately and reduce the possibility of aliasing

Tektronix TBS1000	Bandwidth	Sample rate(all CHs on)	Sample rate/Bandwidth	GW Instek GDS-1000A-U	Bandwidth	Sample rate(all CHs on)	Sample rate/Bandwidth	GW Instek GDS-1000-U	Bandwidth	Sample rate(all CHs on)	Sample rate/Bandwidth
TBS1022	25MHz	500MS/s	20 times								
TBS1042	40MHz	500MS/s	12.5 times					GDS-1052-U	50MHz	250MS/s	5 times
TBS1062	60MHz	1GS/s	16.7 times	GDS-1072A-U	70MHz	500MS/s	7.1 times	GDS-1072-U	70MHz	250MS/s	3.6 times
TBS1102	100MHz	1GS/s	10 times	GDS-1102A-U	100MHz	500MS/s	5 times	GDS-1102-U	100MHz	250MS/s	2.5 times
TBS1152	150MHz	1GS/s	6.7 times	GDS-1152A-U	150MHz	500MS/s	3.3 times				

Warranty Duration

Tektronix TBS1000 Series

5 year warranty on all models

GW Instek GDS-1000(A)-U Series

Limited lifetime warranty with 5-year minimum

LCD display warranty is 1 year



Advanced Features for Embedded Design

Tektronix TDS2000C Series

- ✓ Higher bandwidth models up to 200 MHz
- ✓ 4 channels available on 70 MHz, 100 MHz, 200 MHz models
- ✓ Higher sample rate available up to 2 GS/s
- ✓ Limited lifetime warranty (at least 10 years)
- ✓ Supports NI LabVIEW SignalExpress

Tektronix MSO2000B and DPO2000B Series

- ✓ Wave Inspector® Navigation and Search for efficient evaluation of records up to 1 million points
- ✓ 7-inch TFT Display
- ✓ Decode, search and trigger on serial buses like I²C, SPI, RS-232 and others
- ✓ 16 digital channels (MSO Series)