



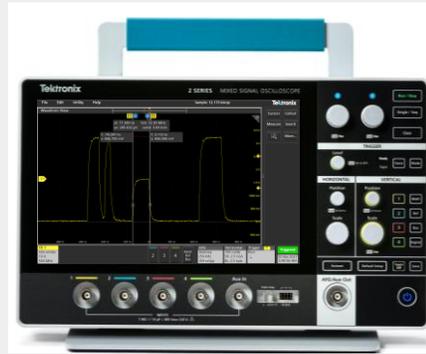
# 2 Series MSO vs. GWInstek MSO2000E

## COMPETITIVE FACT SHEET

### Visualization & Usability

#### Tektronix 2 Series MSO

- ✓ 10.1-inch WXGA (1280 x 800) resolution display with touchscreen
- ✓ Touchscreen capabilities with intuitive control commands
- ✓ Ability to view multiple waveform slices in stacked mode
- ✓ Common user interface across the scope family



#### GWInstek MSO2000E

- ✗ 8-inch WVGA (800 x 480) resolution display
- ✗ No touchscreen capabilities
- ✗ Only able to view in one window
- ✓ Same user interfaces across different models



### Portability & Physical Characteristics

#### Tektronix 2 Series MSO

- ✓ **Battery:** Optional battery pack can power the instrument for up to 8 hours
- ✓ **Weight:** 4 lbs standalone and 8 lbs total with battery pack and two batteries
- ✓ **Footprint:** 8.26" x 13.54" x 1.59" (H x W x D) dimensions allows for more desk space
- ✓ **Flexibility:** VESA Mount allows for the scope to be positioned in many ways

#### GWInstek MSO2000E

- ✗ **Battery:** There is no battery support
- ✗ **Weight:** 6.2 lbs is heavier than the 2 Series MSO without the battery pack
- ✗ **Footprint:** 8.2" x 15.1" x 5" (H x W x D) dimensions takes up more space on the lab bench
- ✗ **Flexibility:** No VESA Mount

### Key Specifications Comparison

	Tektronix 2 Series MSO		GWInstek MSO2000E	
Analog Channels	✓	2, 4	✓	2, 4
Digital Channels	✓	16 (with option 2-MSO)	✓	16
Bandwidth	✓	70, 100, 200, 350, 500 MHz	✗	70, 100, 200 MHz
Max. Sample Rate	✓	1.25 GS/s (all channels on) 2.5 GS/s (half channels on)	✗	1 GS/s (per channel, 2ch model) 500 MS/s (per channel, 4ch model)
Max. Record Length (All channels on)	✓	10 M points	✓	10 M points
Maximum Input Voltage	✓	CATII 300 Vrms	✗	CATI 300 Vrms
Standard Trigger Types	✓	Edge, Pulse Width, Runt, Timeout, Logic, Setup & Hold, Rise/Fall Time, Parallel Bus	✗	Edge, Pattern, Pulse Width, Serial Bus, Parallel Bus
Arbitrary Function Generator (AFG)	✓	1-channel, 50 MHz	✓	2-channel, 25 MHz
Digital Pattern Generator (DPG)	✓	4 channels, 4k memory length, up to 25 Mbps	✗	No



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### Productivity

#### Tektronix 2 Series MSO

- ✓ **Help:** Shows graphical images and explanatory text to provide quick feature overviews. Application notes and more information available on website
- ✓ **Feature Control:** Allows disabling of autoset, cursors, and automated measurements
- ✓ **Front Panel:** Simplified front panel with LED color coded ring lights
- ✓ **Highly Customizable Software:** Change font sizes, colors, autoset, window sizes, and much more
- ✓ **PC Analysis:** Perform advanced analysis using TekScope™ with same UI as 2 Series



#### GWInstek MSO2000E

- ✗ Built in help menu provides help on selected options
- ✗ No feature control available
- ✗ Complicated front panel with no LED color coded ring lights
- ✗ No customizability options
- ✗ No comprehensive software to perform advanced analysis on PC



### Measurement

#### Tektronix 2 Series MSO

- ✓ Display unlimited measurements either as measurement badge or collectively in a results table
- ✓ One set of cursors per display, can be enabled in any window simultaneously
- ✗ Perform serial protocol triggering and analysis on the most common buses (requires 2-SERIAL)
- ✓ Unlimited math waveforms and reference signals
- ✓ Gate both measurements and FFTs
- ✓ 37 automatic measurements
- ✓ Frequency Response Analysis (Bode plot, requires 2-SOURCE)

#### GWInstek MSO2000E

- ✗ Maximum of 8 active measurements at once
- ✗ One set of XY cursors
- ✓ Serial triggering and decoding standard
- ✗ Only 1 math waveform and 4 reference waveforms
- ✗ No measurement or FFT gating
- ✗ 30 automatic measurements\*  
\*FRF, etc. listed as Delay on 2 Series MSO. Cursor measurements also not included.
- ✗ Bode plot (MSO-2000EA model only)

### Connectivity

#### Tektronix 2 Series MSO

- ✓ Two USB 2.0 HOST ports
  - ✓ One USB DEVICE port
  - ✓ Ethernet port for network connectivity
- TekDrive™ is natively integrated as a T&M collaborative data workspace that allows for seamless data access anywhere and much more



#### GWInstek MSO2000E

- ✗ One USB 2.0 HOST port
- ✓ One USB DEVICE port
- ✓ Ethernet port
- ✗ Data log function allows storage of data on USB drive, the scope's memory, or a remote computer

