

Handheld Digital Oscilloscopes

2510B Series

Comparison Guide

Company	B&K Precision		GW Instek		Keysight		Fluke	
Series	2510B Series		GDS-300		U1600 Series		190 Series III	
Model	2511B / 2512B	2515B / 2516B	GDS-310	GDS-320	U1610A	U1620A	190-102	190-202
Price	\$1,650 / \$2,025	\$3,250 / \$3,750	\$1,632	\$2,010	\$4,777	\$5,239	\$4,667	\$5,092
Bandwidth	100 MHz / 200 MHz	100 MHz / 200 MHz	100 MHz	200 MHz	100 MHz	200 MHz	100 MHz	200 MHz
Channels	2		2		2 + EXT Trig		2 + EXT Trig	
Sample Rate	1 GSa/s (Interleaved)		1 GSa/s (Interleaved)		1 GSa/s (Interleaved)	2 GSa/s (Interleaved)	1.25 GSa/s (each channel)	2.5 GSa/s (each channel)
Memory Depth	12 Mpts (Interleaved)		10 Mpts (Interleaved)		120 kpts (Interleaved)	2 Mpts (Interleaved)	10 kpts (each channel)	
Display	5.6" color (640 x 480)		7" color (480 x 800 pixels)		5.7" color (640 x 480)		6.3" color (640 x 480)	
Waveform Update Rate	100,000 wfms/s		Not specified		Not specified		Not specified	
Isolated Inputs	-	✓	-	-	✓	-	✓	✓
Segmented Acquisition	✓	-	-	-	-	-	✓	✓
True RMS	✓	-	✓	-	✓	-	✓	✓
I ² C, SPI, UART, CAN and LIN Decode	✓	-	-	-	CAN and LIN only		-	-
FFT	✓	-	✓	-	✓	-	✓	✓
DMM Readings	6,000 counts		50,000 counts		10,000 counts		5,000 counts	
General								
Interfaces	USB host, USB device (Micro USB)		USB host		USB host, USB device (Micro USB)		USB host, USB device (Micro USB)	
Battery Life	5.5 hours	4 hours	4 hours		3 hours		3.5 hours	
IP Rating	IP 51		Not specified		IP 41		IP 51	
Safety	300 V CAT II	1000 V CAT II / 600 V CAT III	300 V CAT II		1000 V CAT II / 600 V CAT III		1000 V CAT III / 600 V CAT IV	
Weight	3.85 lbs (1.75 kg)		3.31 lbs (1.5 kg)		5.51 lbs (2.5 kg)		4.61 lbs (2.1 kg)	
Warranty	3 years		Not specified		3 years		3 years	