

SmartDS Series

Deep Memory Digital Storage Oscilloscope

NEW!

10M
Deep Memory

Main Features:

- 1. 60MHz~300MHz with 2/4 Channels;
- 2. 500MS/s~3GS/s sample rate;
- 3. 10M record length for each channel;
- 4. Large 8-inch 800x600 pixels display;
- 5. Autoscale function ;
- 6. Pass/Fail function;
- 7. Smart design with easy workplace;
- 8. Battery (Optional);
- 9. Multiple interface: USB; VGA; LAN

Dimension: 340mm(L)×155mm(H)×70mm(W)
Weight: 1.8kg (without battery)

Performance characteristics

Model	SDS6062	SDS7102	SDS8102	SDS8202	SDS8302	SDS9302
Bandwidth	60MHz	100MHz	100MHz	200MHz	300MHz	300MHz
Sample rate(Real time)	500MS/s	1GS/s	2GS/s		2.5GS/s	3GS/s
Horizontal Scale(S/div)	5ns/div~100s/div, step by 1~2~5		2ns/div~100s/div, step by 1~2~5		1ns/div~100s/div, step by 1~2~5	
Rise time (at input, typical)	≤5.8ns		≤3.5ns		≤1.7ns	
Channels	2 + 1 (External)					
Display	8" color LCD, TFT display , 640*480 pixels, 65535 colors					
Input impedance	1MΩ±2%, in parallel with 15pF±5pF					
channels Isolation	50Hz: 100 : 1, 10MHz: 40 : 1					
Max. input voltage	400V (PK-PK) (DC + AC PK-PK)					
DC gain accuracy	±3%					
DC accuracy(Average)	Average≥16:±(3% reading+0.05div) for ΔV					
Probe attenuation factor	1X, 10X, 100X, 1000X					
LF respond(AC, -3dB)	≥5Hz(at input, AC coupling, -3dB)					
Record length	Max.10M points for each channel					
Sampling rate/relay time accuracy	±100ppm					
Interpolation	(sin x)/x					

Performance characteristics

Model		SDS6062		SDS7102	SDS8102	SDS8202	SDS8302	SDS9302
Bandwidth		60MHz		100MHz	100MHz	200MHz	300MHz	300MHz
Interval(Δ T) accuracy(full bandwidth)		Single: $\pm(1 \text{ interval time}+100\text{ppm}\times\text{reading}+0.6\text{ns})$ Average >16 : $\pm(1 \text{ interval time}+100\text{ppm}\times\text{reading}+0.4\text{ns})$						
Input coupling		DC, AC , Ground						
Vertical resolution (A/D)		8 bits resolution (2 Channels simultaneously)						
Vertical sensitivity		2mV/div \sim 10V/div(at input)						
Trigger type		Edge, Pulse, Video, Slope, Alternate						
Trigger mode		Auto, Normal, Single						
Trigger level		± 6 divisions from screen center						
Acquisition modes		Sample, Peak Detect and Average						
Line/field frequency(Video)		Support standard NTSC、PAL and SECAM broadcast systems						
Cursor measurement		Δ V and Δ T between cursors						
Automatic measurement		Vpp,Vavg,RMS,Frequency,Period,Vmax,Vmin,Vtop,Vbase,Width,Overshoot,Pre-shoot,Rise time, Fall time,+ Width,-Width,+Duty,-Duty,Delay A \rightarrow B \overline{f} ,Delay A \rightarrow B \overline{f}						
Waveform Math		+, −, ×, ÷, FFT						
Waveform storage		15 waveforms						
Lissajou’s figure	Bandwidth	Full bandwidth						
	Phase difference	± 3 degrees						
Communication interface		USB, Support USB Flash Disk Storage, Pass/Fail		USB2.0 or RS-232, USB flash disk storage, LAN, Pass/Fail				
Cymometer		Available						
Power supply		100V-240V AC, 50/60Hz, CAT II						
Power consumption		<18W						
Fuse		1A, T class, 250V						

OWON continues to improve products and reserves the rights to change specifications without advance notice. For latest ones,please refer to our website.

Application

- Electronic circuit debugging
- Circuit testing
- Design and manufacture
- Education and training
- Automobile maintenance and testing

Accessories

The receipt of accessories should be taken as final.

