

Main Features:

1. Bandwidth: 100MHz
2. Sample rate: 2GS/s
3. 10M record length for each channel
4. Autoscale function
5. Large 8-inch 800x600 pixels display
6. Pass/Fail function
7. SVGA output (Optional)
8. Waveform record & replay
9. Battery (Optional)



Performance characteristics

	Model	SDS8102
Performance	Bandwidth	100MHz
	Channels	2+1(External)
Acquire	Acquisition modes	Sample, Peak Detect and Average
	Sample rate(Real time)	2GS/s
Input	Input coupling	DC, AC, Ground
	Input impedance	1MΩ±2%, 10pF±5pF
	Probe attenuation factor	1X, 10X, 100X, 1000X
	Max. input voltage	400V (PK-PK) (DC + AC PK-PK)
	Channels Isolation	50Hz: 100 : 1, 10MHz: 40 : 1
	Time delay between channel(typical)	150ps
Horizontal system	Sample rate range	0.5S/s~2GS/s
	Record length	10M(1GS/s)
	Interpolation	(sin x) /x
	Horizontal Scale(S/div)	2ns/div~100s/div, step by 1~2~5
	Interval(ΔT) accuracy (DC-100MHz)	Single: ±(1 interval time+100ppmx reading+0.6ns) Average>16: ±(1 interval time+100ppmxreading+0.4ns)
	Sampling rate/relay time accuracy	±100ppm

Performance characteristics

	Model	SDS8102	
Vertical System	Vertical resolution (A/D)	8 bits Resolution (2 channels simultaneously)	
	Vertical sensitivity	2mV/div~10V/div(at input)	
	Displacement	±1V(2mV~200mV), ±10V(500mV~1V), ±100V(2V~10V)	
	Analog Bandwidth	100MHz	
	Single bandwidth	Full bandwidth	
	low frequency	≥ 5Hz	
	Rise time (at input, typical)	≤3.5ns	
	DC gain accuracy	±3%	
	DC accuracy(Average)	Average > 16: ±(3% rdg + 0.05 div) for ΔV	
Measurement	Cursor measurement	ΔV and ΔT between cursors	
	Automatic measurement	Vpp, Vmax, Vmin, Vtop, Vbase, Vamp, Vavg, Vrms, Overshoot, Preshoot, Freq, Period, Rise Time, Fall Time, DelayA→B, DelayA→B, +Width, -Width, +Duty, -Duty	
	Waveform Math	+, -, ×, / , FFT	
	Waveform storage	15 waveforms	
	Lissajou's figure	Bandwidth	Full bandwidth
		Phase difference	±3 degrees
Communication interface	USB, USB flash disk storage, Pass/Fail, SVGA (optional), LAN		
Trigger	Trigger level range	±6 divisions from screen center	
	Trigger level accuracy	±0.3div	
	Horizontal Trigger displacement	Pre-trigger: 655 div, Post-trigger: 10 div	
	Trigger Holdoff range	100ns~10s	
	Edge trigger	Rising、Falling	
	Pulse Trigger	Trigger Condition	Positive pulse: >、<、= negative pulse: >、<、=
		Pulse width range	24ns~10s
	Video Trigger	NTSC、PAL、SECAM	
	Slope Trigger	Trigger Condition	Positive pulse: >、<、= negative pulse: >、<、=
		Time setting	24ns~10s
Alternate Trigger	Edge, Pulse, Video, Slope		
Waveform record	Waveform quantity	1~1000	
	Interval time	1ms~1000s	
	Display	8" color LCD, TFT display, 800x600 pixels, 65535 colors	
	Power Supply	100~240V AC RMS, 50/60Hz, CAT II	
	Power consumption	< 18W	
	Weight	1.8Kg(without battery)	

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

Accessories



Probe



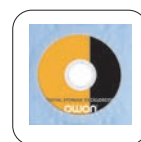
Power Cord



Probe adjust pen



USB data cable



Driver CD



Battery (optional)



Manual

Contact information

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