

SDS1000D Specifications

File Version V1.0

Siglent technology Co., Ltd

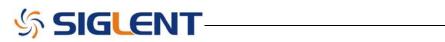


CHARACTERISTIC:

- Single real-time sampling rate:500Msa/s; Equivalent sampling rate:50GSa/s.
- Memory Depth: Single Channel 32Kpts
- Max recording length:6M;Max recording time 33.3 h
- Trigger types: Edge, Pulse Width, Video, Slope, Alternative
- Unique Digital Filter function and Waveform recorder function
- Support Pass/Fail function.
- Thirty two parameters Auto measure function.
- Save/recall types: Setups, Waveforms, Csv file, Picture.
- Support Multilingual On-line help system
- Waveform Intensity and Grid Brightness can be adjusted.
- Support twelve types Language
- Standard Configuration Port:

USB Host: Support USB flash driver save/recall function and update firmware; USB Device: Support PictBridge compatible printer and support PC remote control; RS232;

Pass/Fail Output.



Input	
Input Coupling	AC, DC, GND
Input Impedance	DC: 1MΩ+/-2% 17pF +/-3pF
	AC: 1.2MΩ+/-2% 17pF +/-3pF, <=100mV/div
	$1.0M\Omega + /-2\% \parallel 17 pF + /-3 pF, > 100 mV/div$
Maximum Input Voltage	± 400 V PK-PK CATI
Ch to Ch Isolation	>100: 1 at 50MHZ (SDS1102D)
(Both channels in same V/div	>100: 1 at 30MHZ (SDS1062D)
setting)	>100: 1 at 20MHZ (SDS1042D)
Probe attenuator	1X, 10X
Probe attenuator	1X, 10X, 100X, 1000X

Horizontal System	
Real Time Sampling Rate	Single Channel: 500MS/s
	Double Channel:250MS/s
Equivalent Sampling Rate	50GSa/s
Measure Display Modes	MAIN, WINDOW, WINDOW ZOOM, Scan, X-Y
Timebase Accuracy	± 100 ppm measured over 10ms interval
Time Window	12 Divisions
Horizontal Scan Range	2.5ns/div -50s/div (SDS1102D)
	5ns/div -50s/div (SDS1062D)
	10 ns/div -50s/div (SDS1042D)
	25 ns/div -50s/div (SDS1022D)
	Scan: 100ms/div -50s/div (1-2.5-5 sequence)
Vertical System	
Vertical Sensitivity	2mV-10V/div at input BNC(1-2-5 order)
Channel voltage offset	2mv-200 mV : ±1.6V
range	206mV-10V: \pm 40V in Fixed Gain Ranges and
	Variable Gain Ranges
Vertical Resolution	8 bit
Channels	2
Analog Bandwidth (at input	100MHz (SDS1102D)
BNC)	60MHz (SDS1062D)
	40MHz (SDS1042D)
	25MHZ (SDS1022D)
BW Flatness	DC-10% of rated BW: ±1DB
	10%-50% of rated BW: $\pm 2DB$
	50%-100% of rated BW: \pm 3DB
Lower frequency limit (AC	≤10Hz(at input BNC)
-3dB)	
Noise: Pk-Pk for 3K record	≤0.6Div for average of 10Pk-Pk readings in fixed



SFDR including harmonics		gain settings.
SFDR including harmonics ≥40dB		<=0.7 Div for average of 10 Pk-Pk readings, Variable
C Gain Accuracy		gain settings
C±4.0%:typical for 2mv/div and Variable Gain Ranges	SFDR including harmonics	≥40dB
Ranges	DC Gain Accuracy	$< \pm 3.0\%$: 5mv/div to 5V/div in Fixed Gain Ranges
DC Measurement Accuracy: ± [3%X (reading + offset) +1% of offset +0.2div+2mv] All Gain settings ≤ 100mv/div DC Measurement Accuracy: ± [3%X (reading + offset) +1% of offset +0.2div+100mv] All Gain settings > 100mv/div Rise time. Typical (using 500ps pulse) <3.5ns (SDS102D)		$<$ \pm 4.0%:typical for 2mv/div and Variable Gain
Accuracy: All Gain settings ≤ 100mv/div DC Measurement Accuracy: All Gain settings > 100mv/div Rise time. Typical (using 500ps pulse) Math operation +,-,*/FFT Window mode: Hanning, Hanmming, Blackman, Rectangular Sampling points: 1024 Bandwidth limiter 20MHZ ± 40% Typical(Note: BW limited below 20MHZ±40% when using probe X1) Trigger System Trigger Modes Auto, Normal, Single Trigger Coupling AC, DC, LF rej, HF rej Trigger Level Range CH1, CH2: ±6divisions from center of screen EXT: ±1.2V EXT/5: ±6V Trigger Tigger Tigger Tigger Tigger Tigger Modes CH1, CH2: ±6divisions from center of screen EXT: ±1.2V EXT/5: ±6V Trigger Tigger Coupling Time ≥20ns Edge Trigger Tigger Getting +40 mV) Edge Trigger Tigger Tigger Tigger Tigger Modes: (>,<, =) Positive Pulse Width, (>,<,=)Negative Pulse Width Pulse Width Range: 20ns-10s Video Trigger Support signal Formats: PAL/SECAM, NTSC Trigger condition: odd field, even field, all lines, line Num		Ranges
All Gain settings ≤ 100mv/div DC Measurement Accuracy: All Gain settings > 100mv/div Rise time, Typical (using 500ps pulse) Solops pulse) Math operation +-,*,*,/FFT FFT Window mode: Hanning, Hannming, Blackman, Rectangular Sampling points: 1024 Bandwidth limiter 20MHZ ± 40% Typical(Note: BW limited below 20MHZ ± 40% when using probe X1) Trigger System Trigger Modes Auto, Normal, Single Trigger Sources Ch1-2, EXT, EXT/5, AC Line Trigger Level Range CH1, CH2: ±6divisions from center of screen EXT: ±1.2V EXT/5: ±6V Trigger Level Accuracy (typical) applicable for the signal of rising and falling time ≥20ns Edge Trigger Edge type: Rising, Falling, Rising and Falling time ≥20ns Edge type: Rising, Falling, Rising and Falling Trigger Modes: (>,<, =) Positive Pulse Width, Cyc., —; Negative Pulse Width, Pulse Width Range: 20ns-10s Video Trigger Support signal Formats: PAL/SECAM, NTSC Trigger condition: odd field, even field, all lines, line Num	DC Measurement	\pm [3%X (reading + offset) +1% of offset
DC Measurement ± [3%X (reading + offset) +1% of offset +0.2div+100mv	Accuracy:	+0.2div+2mv]
DC Measurement ± [3%X (reading + offset) +1% of offset Accuracy:	All Gain settings ≤	
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Rise time, Typical (using S.5ns (SDS1102D)	Accuracy:	+0.2div+100mv]
Rise time, Typical (using S.5ns (SDS1102D)	All Gain settings >	-
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Soops pulse Soops polse Soops pulse Soops polse Soops pulse Soops pulse	Rise time, Typical (using	<3.5ns (SDS1102D)
<8.8ns (SDS1042D)	51	
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Math operation +,-,*,/,FFT FFT Window mode: Hanning, Hanmming, Blackman, Rectangular Sampling points: 1024 Bandwidth limiter 20MHZ ± 40% Typical(Note: BW limited below 20MHZ±40% when using probe X1) Trigger System Trigger Types Edge, Pulse Width, Video, Slope, Alternative Trigger Modes Auto, Normal, Single Trigger Coupling AC, DC, LF rej, HF rej Trigger Level Range CH1, CH2: ±6divisions from center of screen EXT: ±1.2V EXT/5: ±6V Trigger Level Accuracy (typical) applicable for the signal of rising and falling time ≥20ns Internal: ±(0.2 div×V/div)(within±4 divisions from center of screen) EXT: ±(6% of setting + 40 mV) EXT/5: ±(6% of setting + 200 mV) Edge Trigger Edge type: Rising, Falling, Rising and Falling Pulse Width Trigger Trigger Modes: (>, <, =) Positive Pulse Width, (>, <, =)Negative Pulse Width		
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Trigger Level Range $ \begin{array}{c} \text{CH1, CH2: } \pm 6 \text{divisions from center of screen} \\ \text{EXT: } \pm 1.2 \text{V} \\ \text{EXT/5: } \pm 6 \text{V} \\ \\ \text{Trigger Level Accuracy} \\ \text{(typical) applicable for the signal of rising and falling time } \geq 20 \text{ns} \\ \hline \text{Edge Trigger} \\ \text{Pulse Width Trigger} \\ \text{Pulse Width Trigger} \\ \text{Video Trigger} \\ \text{Video Trigger} \\ \text{Support signal Formats: PAL/SECAM, NTSC} \\ \hline \text{Trigger condition: odd field, even field, all lines, line Num} \\ \hline \end{array} $	Trigger Sources	Ch1-2, EXT, EXT/5, AC Line
$EXT: \pm 1.2V \\ EXT/5: \pm 6V$ Trigger Level Accuracy (typical) applicable for the signal of rising and falling time ≥ 20 ns $EXT: \pm (6\% \text{ of setting} + 40 \text{ mV})$ $EXT/5: \pm (6\% \text{ of setting} + 200 \text{ mV})$ $EXT/5: \pm (6\% \text{ of setting}, \text{ Falling, Rising and Falling}$ Pulse Width Trigger $Pulse \text{ Width Trigger}$ $Pulse \text{ Width Trigger}$ $Pulse \text{ Width Range: } 20\text{ns-}10\text{s}$ $Video \text{ Trigger}$ $Support \text{ signal Formats: PAL/SECAM, NTSC}$ $Trigger \text{ condition: odd field, even field, all lines, line Num}$	Trigger Coupling	AC, DC, LF rej, HF rej
$EXT: \pm 1.2V \\ EXT/5: \pm 6V$ Trigger Level Accuracy (typical) applicable for the signal of rising and falling time ≥ 20 ns $EXT: \pm (6\% \text{ of setting} + 40 \text{ mV})$ $EXT/5: \pm (6\% \text{ of setting} + 200 \text{ mV})$ $EXT/5: \pm (6\% \text{ of setting}, \text{ Falling, Rising and Falling}$ Pulse Width Trigger $Pulse \text{ Width Trigger}$ $Pulse \text{ Width Trigger}$ $Pulse \text{ Width Range: } 20\text{ns-}10\text{s}$ $Video \text{ Trigger}$ $Support \text{ signal Formats: PAL/SECAM, NTSC}$ $Trigger \text{ condition: odd field, even field, all lines, line Num}$	Trigger Level Range	CH1, CH2: ±6divisions from center of screen
Trigger Level Accuracy Internal: ±(0.2 div×V/div)(within±4 divisions from center of screen) signal of rising and falling time ≥20ns EXT: ±(6% of setting + 40 mV) Edge Trigger Edge type: Rising, Falling, Rising and Falling Pulse Width Trigger Trigger Modes: (>,<,=) Positive Pulse		EXT: ±1.2V
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Trigger condition: odd field, even field, all lines, line Num	T' 1 T'	
line Num	Video Trigger	
Clone Trigger (\ \ - \) Desitive alone (\ \ \ - \)Nti		
Slope Trigger $(>,<,=)$ Positive slope, $(>,<,=)$ Negative	L C1 PP:	



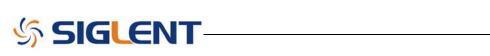
% SIGLENT—	SDS1000D Specif
3)	slope
	Time: 20ns-10s
Alternative Trigger	CH1 trigger type: Edge, Pulse, Video, Slope
	CH2 trigger type: Edge, Pulse, Video, Slope

Control Panel Function	
Auto Set	Auto adjusting the Vertical, Horizontal system and
	Trigger Position
Save/Recall	Support 2 Group referenced Waveforms, 20
	Group setups, 20 Group captured Waveforms
	internal Storage/Recall function and USB flash
	driver storage function.

Hard Ware Frequency Counter	
Reading resolution	6 Bytes
Accuracy	$\pm 0.01\%$
Range	DC Couple, 10HZ to MAX Bandwidth
Signal Types	Satisfying all Trigger signal (Except Pulse width
	trigger and Video Trigger)

Acquisition System	
Sample Types	Real time, Equivalent time
Memory Depth	Single Channel:32Kpts
Sample Mode	Sample, Peak Measure, Average
Averages	4,16,32,64,128,256

Measure System	
Auto Measure	Vpp, Vmax, Vmin, Vamp, Vtop, Vbase, Vavg,
	Mean, Crms, Vrms, ROVShoot, FOVShoot,
	RPREShoot, FPREShoot, Rise time, Fall time,
	Freq, Period, +Wid, -Wid, +Dut, -Dut, Bwid,
	Phase, FRR, FRF, FFR, FFF, LRR, LFF, LFR, LFF
Cursor Measure	Manual mode, Track mode and Auto mode



Generic Specification

Display System	
Display Mode	Color TFT 5.7in.(145mm)diagonal Liquid Crystal
	Display
Resolution	320 horizontal by 234 vertical pixels
Display Color	64K color
Display Contrast (Typical	150:1
state)	
Backlight Intensity (Typical	300nit
state)	
Wave display range	8 x 12 div
Wave Display Mode	Point, Vector
Persist	Off, 1 sec, 2 sec, 5 sec, Infinite
Menu Display	2 sec, 5 sec, 10 sec, 20 sec, Infinite
Skin	Succinct
Screen saver	1min, 2min, 5min, 10min,15min, 30min, 1hour,
	2hour, 5hour, off
waveform interpolation	Sin(x)/x, Linear
Color model	Normal , Invert
-	
Language	Simplified Chinese, Traditional Chinese, English,
	French, German, Russian, Spanish, Portuguese
	Japanese, Korean, Italian, Arabic

Power Supply	
Input Voltage	100-240 VAC, CAT II, Auto selection
Frequency Scope	45Hz to 440Hz
Power	50VA Max

Mechanical		
Dimension	length	305mm
	Width	133mm
	Height	154mm
Weight	2.3 kg	

Environments	
Temperature	Operating:10°C to +40°C
	Not operating: -20° C to $+60^{\circ}$ C
Humidity	Operating: 85%RH, 40°C, 24 hours
	Not operating: 85%RH, 65°C, 24 hours
Height	Operating: 3000m
	Not operating: 15,266m