Digital Storage Oscilloscope
SMO502ED+, SMO1002ED+

Advance Features

- Bandwidth : 50 MHz, 100 MHz
- 2 Channel
- Sample Rate : 1 GSa/s
- Record Length : 40 M
- Ultra thin body
- 7 inch High Resolution LCD
- SCPI and Lab View supported
- Waveform capture rate up to 200 wfm/s

Technical Specifications		SMO502ED+	SMO1002ED+
Bandwidth		50 MHz	100 MHz
Rise Time (at input, typical)		≤ 7 ns	≤ 3.5 ns
Acquisition			
Sample Rate		1 GSa/s	
Mode		Normal, Peak detect, Averaging	
Vertical System			
Channel		2	
Input Coupling		DC, AC and GND	
Input Impedance		1 MΩ ± 2%, in parallel with 12 pF ± 5 pF	
Max Input Voltage		400 V (PK - PK) (DC + AC, PK - PK)	
Vertical Resolution (A/D)		8 bits (2 channels simultaneously)	
Vertical Sensitivity		2 mV/div ~ 10 V/div (at input)	
DC Gain Accuracy		± 3%	
Channel Isolation		50 Hz : 100 : 1, 10 MHz : 40 : 1	
Probe Attenuation Factor		1 X, 10 X, 100 X, 1000 X	
Horizontal System			
Horizontal Scale (s/div)		2 ns/div ~ 1000 s/div, step by 1 - 2 - 5	
DC Accuracy (Average)		Averages ≥ 16 : ± (3% reading + 0.05 div) for Δ V	
LF Response (AC, -3dB)		≥ 10 Hz (at input, AC coupling, -3dB)	
Accuracy		± 100 ppm	
Record Lenght		40 M	
Interpolation		sin (x) / x	
X-Y Mode	Bandwidth	Full Bandwidth	
	Phase Difference	± 3˚	

Technical Specifications	SMO502ED+	SMO1002ED+
Trigger System		
Trigger Type	Edge, Video	
Trigger Slope	Rising, Falling	
Trigger Mode	Auto, Normal and Single	
Trigger Level Accuracy	± 0.3 div	
Trigger Level Range	± 4 divisions from screen center	
Trigger Holdoff Range	100 ns ~ 10 s	
Video Trigger	NTSC, PAL and SECAM	
	Line number range : 1-525 (NTSC), 1-625 (PAL/SECAM)	
Measurement System		
Automatic Measurement	Period, Frequency, Mean, Vpp, Vmax, Vmin, Vtop, Vbse, Amplitude, Overshoot, Pre-shoot, Rise time, Fall Time, + Pulse Width, - Pulse Width, + Duty Cycle, - Duty Cycle , Delay A →B ⅃ Delay A →B ⅂, Cycle RMS, Screen Duty, Phase, + Pulse Count, - Pulse Count, Rise Edge Count, Fall Edge Count, Area, Cycle Area	
Cursor Measurement	ΔV, ΔT, ΔV & ΔT between cursors, Auto Cursor	
Waveform Math	+, -, x, ÷, FFT	
Frequency Counter	Full Bandwidth	
Storage & Interface		
Waveform Storage	16 Waveforms	
Communication Interface	USB host, USB device	
General Specifications		
Power Supply	100 V to 240 V AC, 50/60 Hz, CAT II	
Power Consupmption	< 16 W	
Fuse	2 A, T class, 250 V	
Environmental Conditions	Temperature, : 0˚C ~ 50˚C (Operating), -20˚C ~ 60˚C (Storage), ≤ 90% RH	
Display Type	7” Colour TFT LCD	
Display Resolution	800 X 480 pixels	
Dimensions (W X H X D)	301 X 152 X 70 mm	
Weight	1.10 Kg	
Accessories	Power Cord, Manual, USB Cable, Probe	

Subject to change without notice

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