

AS Series Oscilloscopes Technical Specifications

Performance Characteristics		Instruction	
Bandwidth	AS101	DC	0 – 10 MHz
		AC	10 Hz – 10 MHz
	AS201	DC	0 – 20 MHz
		AC	10 Hz – 20 MHz
Channel Q'nty		1	
Acquisition	Run/Stop	supported	
	Sampling Rate	100M Sa/s	
Input	Input Coupling	DC, AC, and ground	
	Input Impedance	1 M Ω \pm 2%, in parallel with 20 pF \pm 5 pF	
	Max. Input Voltage	400V (DC+AC, PK - PK)	
Horizontal System	Sampling Rate Range	0.5 Sa/s - 100 MSa/s	
	Interpolation	sin(x)/x	
	Scanning Speed (s/DIV)	0.05 μ s/DIV - 0.1s/DIV, step by 1 - 2 - 5	
	Sampling Rate / Relay Time Accuracy	\pm 100 ppm	
	Trimming Ratio	\geq 2.5:1	
Vertical system	Sensitivity	5 mV/DIV - 10 V/DIV	
	Displacement	\pm 10 DIV	
	Analog Bandwidth	AS101	10 MHz
		AS201	20 MHz
	Low Frequency	\geq 10 Hz (at input, AC coupling, -3 dB)	
	Rise Time (at input, typical)	\leq 30 ns	
	Trimming Ratio	\geq 2.5:1	

X-Y Mode

Sensitivity	X: 0.5V/DIV, Y: 0.1V/DIV - 1V/DIV
Bandwidth (-3dB)	DC: 0 - 1MHz, AC: 10Hz - 1MHz

Trigger

Trigger Level Range	Internal	\pm 4 DIV from the screen center
Trigger Level Accuracy (typical)	Internal, External	\pm 0.3 DIV
Trigger Lock		supported
Edge Trigger	Slope	rising, falling
Video Trigger	Modulation	supported standard: NTSC, PAL and SECAM broadcast systems
Ext. Trigger Input Impedance		1 M Ω \pm 2%, in parallel with 20 pF \pm 5 pF
Ext. Trigger Max. Input Voltage		400 Vpp
Trigger Source		Int, Line, Ext
Trigger Mode		Norm, Auto, and TV

Output of the Probe Compensator

Output Voltage (typical)	square, 0.5 Vpp \pm 2%
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Frequency (typical)	square wave of 1 kHz ($\pm 1\%$)
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General Technical Specifications

Display

Display Type	3.7" LCD, TFT screen
Display Resolution	320 (horizontal) x 240 (vertical) pixels
Display Color	65536 colors

Power

Mains Voltage	100 - 240 VACRMS, 50/60 Hz, CAT II
Power Consumption	< 15 W
Fuse	1A, T class, 250 V

Environment

Temperature	working temperature: (0 °C) - (+40 °C)
	storage: (-20 °C) - (+60 °C)
Relative Humidity	$\leq 90\%$
Height	operating: 3,000 m
	non-operating: 15,000 m
Cooling Method	natural cooling

Mechanical Specifications

Dimension (D/H/W)	288 mm x 195 mm x 117 mm
Weight	Approx. 1.8 kg



V1.0.1