Digital Storage Oscilloscope

1GSa/s, 200MHz, 40K Record Length

DSO5000P Series

Feature

- 200/100/70MHz Bandwidth; 1GSa/s Sample Rate;
- 2 Channel Oscilloscope; 40K Record Length;
- 7 inch 64K color LCD display, Resolution 800x480;
- 32 kinds of Automotive measurement, with FFT function;
- Ultrathin design, handy volume, easily portable;
- Powerful trigger function: Video, Edge, Pluse Width, Slope, Overtime, Alternate Trigger.

Specification

	Model	DSO5202P	DSO5102P	DSO5072P
Horizontal	Bandwidth	200MHz	100MHz	70MHz
	Sampling Rate Range	1GSa/s		
	Equivalent Sample Rate	25GSa/s		
	Memory Depth (Sample Points)	40K		
	SEC/DIV Range	2ns/div~40s/div	4ns/div-80s/div	
	Delay Time Accuracy	±50ppm in any ≥1ms time intervals		
	Delta Time Measurement	Single-shot, "sampling" mode, ± (1 sampling interval + 100ppm × readings + 0.6ns)		
	Accuracy (full bandwidth)	> 16 times above average, ± (1 sampling interval + 100ppm × readings + 0.4ns)		
		Sampling interval = SEC/DIV÷200		
Vertical	A/D Converter	8-bit resolution, each channel sampled simultaneously		
	VOLTS/DIV Range	2mV/div～5V/div at input BNC		
	Position Range	±50V(5V/div); ±40V(2V/div～500mV/div);		
		±2V(200mV/div～50mV/div); ±400mV(20mV/div～2mV/div)		
	Rise Time at BNC	1.7ns	3.5ns	5ns
	DC Gain Accuracy	±4% for Sample or Average acquisition mode, 5mV/div to 2mV/div		
		±3% for Sample or Average acquisition mode, 5V/div to 10mV/div		
Trigger	Trigger Sensitivity(Edge Trigger Type)	DC(Intelnal): 1div from DC to 10MHz, 1.5div from 10MHz to 100MHz, 2div from 100MHz to 200MHz;		
		DC(EXT): 200mV from DC to 100MHz, 350mV from 100MHz to 200MHz;		
		DC(EXT/5): 1V from DC to 100MHz, 1.75V from 100MHz to 200MHz;		
		AC: Attenuates signals below 10Hz;		
		HF Reject: Attenuates signals when above 80KHz;		
		LF Reject: The same as DC coupling limit when frequency above 150KHz; Attenuates signals when below 150KHz.		
	Trigger Level Range	CH1, CH2: ±8 divisions from center of screen; EXT: ±1.2V; EXT/5: ±6V		
	Typical accuracy for signals having rise and fall time ≥ 20ns)	CH1, CH2:±(0.2div × V/div) (within ±4 divisions from center of screen); EXT: ±(6% of setting+40mV); EXT/5: ±(6% of setting+200mV)		
	Holdoff Range	100ns - 10s		
	Set Trigger Level to 50% (typical)	For the input signals ≥ 50Hz		
	Trigger Type	Video, Edge, Pluse Width, Slope, Overtime, Alternate Trigger.		
Acquisition	Normal, Peak Detect	Upon single acquisition on all channels simultaneously		
	Average	After N acquisitions on all channels simultaneously, N can be set to 4, 8, 16, 32, 64 or 128		
Input	Input Coupling	DC, AC or GND		
	Input Impedance, DC coupled	1MΩ±2% for 20pF±3 pF		
	Probe Attenuation	1X, 10X,		
	Supported Probe Attenuation Factor	1X, 10X,100X, 1000X		
	Max. Input Voltage	CAT I and CAT II: Installation type: 300VRMS(10×); CAT III: 150VRMS(1×)		
Measurement	Cursors	The difference between voltage cursors △V;		
		The difference between time cursors △T;		
		Reciprocal of △T in Hertz (1/ΔT).		
	Automatic	Frequency, Period, Mean, Pk-Pk, Cycli RMS, Minimum, Maximum, Rise time, Fall Time, +Pulse Width, -Pulse Width, Delay1-2Rise, Delay1-2Fall, +Duty, -Duty, Vbase, Vtop, Vmid, Vamp, Overshoot, Preshoot, Preiod Mean, Preiod RMS, FOVShoot, RPREShoot, BWIDTH, FRF, FFR, LRR, LRF, LFR, LFF		
Other	Display	7 inch 64K color LCD 800x480 pixels Adjustable (16 gears) with the progress bar		
	Voltage	100-120VACRMS(±10%),45Hz to 440Hz, CAT Ⅱ; 120-240VACRMS(±10%),45Hz to 66Hz, CAT Ⅱ		
	Power	< 30W		
	Fuse	2A, T rating, 250V		
	Size & Weight	313mm(L)x108mm(W)x142mm(H); 2.08KG(without Packing)		

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