PicoScope®



Technical specifications of the PicoScope 4823 Automotive diagnostic oscilloscope

Channels	8
Vertical resolution	12 bits (up to 16 bits in enhanced resolution mode)
DC accuracy	±1% of full scale ±300 μV
Input sensitivity	2 mV/div to 10 V/div (10 vertical divisions)
Input ranges (full scale)	±10 mV to ±50 V in 12 ranges
Input characteristics	1 MΩ in parallel with 19 pF
Input type	BNC
Input coupling	Software selectable AC/DC
Input overvoltage protection	±100 V (DC + AC peak)
Buffer memory	256 MS shared between active channels
Timebase ranges	20 ns/div to 5000 s/div
Bandwidth (-3 dB)	20 MHz 10 MHz (10 mV and 20 mV ranges)
Maximum sampling rate (real time): 1-4 channels in use 5-8 channels in use	80 MS/s 40 MS/s
Maximum samling rate (continuous streaming mode)	20 MS/s using PicoScope 6 software 80 MS/s per channel using supplied API, 160 MS/s total across all channels (PC-dependent)
Analog offset range (vertical position adjustment)	±250 mV (10 mV to 500 mV ranges) ±2.5 V (1 V to 5 V ranges) ±25 V (10 V to 50 V ranges)
SIGNAL GENERATOR	
	Sing aguera triangle DC voltage romp sing Caussian half sing white naise DDPS
Standard output signals	Sine, square, triangle, DC voltage, ramp, sinc, Gaussian, half-sine, white noise, PRBS DC to 1 MHz
Standard signal frequency	Up, down, dual
Sweep modes	Can trigger a counted number of waveform cycles or sweeps (up to 1 billion)
Triggering	from the scope trigger or manually from software.
Frequency accuracy	±20 ppm
Frequency resolution	< 20 mHz
Voltage range	±2 V
Amplitude and offset adjustment	Signal amplitude and offset within ± 2V range.
DC accuracy	±1% of full scale
Output characteristics	Rear-panel BNC, $600~\Omega$ output impedance
Overvoltage protection	±10 V

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ARBITRARY WAVEFORM GENERATOR		
Update rate	80 MS/s	
Buffer size	16 kS	
Resolution	14 bits	
ENVIRONMENTAL		
Operating temperature range	0 °C to 45 °C (20 °C to 30 °C for quoted accuracy)	
Operating humidity range	5% to 80% RH, non-condensing	
Storage temperature range	-20 to +60°C	
Storage humidity range	5 to 95% RH, non-condensing	
PHYSICAL CHARACTERISTICS		
Dimensions	190 x 160 x 40 mm (approx 7.5 x 6.3 x 1.6 in)	
Weight	< 0.55 kg (approx 1.2 lbs)	
GENERAL		
Additional accessories (supplied)	USB cable and Safety Guide	
PC interface	SuperSpeed USB 3.0 (USB 1.1 and USB 2.0 compatible)	
Power requirements	Powered from USB	
Approvals	FCC and CE compliant	
Warranty	2 years	

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