TEKTRONIX

TDS340A

The Tektronix TDS340A is a 100 MHz, 2-channel digital real-time oscilloscope with a maximum sample rate of 500 MS/s. It features a built-in 3.5-inch floppy disk drive, FFT analysis, and 10 ns peak detect for capturing high-speed glitches.

SPECIFICATIONS

General

Interfaces	GPIB, RS-232-C, Parallel Printer, VGA Monitor (with Option 14)
Display	7-inch monochrome CRT

Physical

Power Supply	90 to 250 VAC RMS, 45 to 440 Hz, 65 W max
Dimensions (W×H×D)	362 x 165 x 471 mm
Weight	7.0 kg

Vertical System

Channels	2
Bandwidth	100 MHz
Vertical Sensitivity Range	2 mV/div to 10 V/div
DC Gain Accuracy	±2%
Vertical Resolution	8 bits
Input Impedance	1 MΩ ± 1% || 20 pF ± 2 pF
Maximum Input Voltage	400 V (DC + peak AC) at 1 MΩ
Input Coupling	AC, DC, GND
Bandwidth Limit	20 MHz

Horizontal System

Sample Rate (Real Time)	500 MS/s
Record Length	1 K points
Time Base Range	5 ns/div to 5 s/div
Time Base Accuracy	±0.01%

Acquisition System

Acquisition Modes	Sample, Envelope, Average, Peak Detect

Measurement and Math

Automatic Measurements	21
Advanced Math/FFT	FFT Analysis

Interfaces and Connectivity

Mass Storage/Media	Built-In 3.5 in. Floppy Disk Drive
Remote Control Interfaces	GPIB, RS-232-C Programmability (Option 14)
Printer/Plotter Ports	Parallel Printer Interface (Option 14)
Video/Monitor Output	VGA Monitor Output (Option 14)

Trigger System

Trigger Sources	CH1, CH2, EXT, EXT/10, AC Line
Trigger Types	Edge, Video

Memory

Non-Volatile Setup Memory	10 front-panel setups
Reference Waveform Memory	2 reference waveforms (1000 points each)

Environmental

Operating Altitude	Up to 3,000 m (10,000 ft)

Triggering

Trigger Coupling	AC, DC, HF Reject, LF Reject, Noise Reject

Measurements

Cursors	Voltage (ΔV), Time (ΔT), Frequency (1/ΔT)

Power

Maximum Power Consumption	65 W

TECHNOLOGY

Digital Storage Oscilloscope (DSO)

APPLICATIONS

Test and Measurement