

TEKTRONIX

TDS210

The Tektronix TDS210 is a classic, highly reliable 2-channel Digital Storage Oscilloscope (DSO) featuring a 60 MHz bandwidth and a 1.0 GS/s real-time sample rate across all channels. Highly valued for its portable design, intuitive interface, and durable build, it remains a popular choice for educational, troubleshooting, and general bench-test applications.

SPECIFICATIONS

General

Interfaces	None standard; GPIB, RS-232, and Centronics printer interfaces available via optional modules (TDS2CMA / TDS2MM)
Display	Backlit LCD (monochrome), 320 × 240 pixels
Warm-up Time	20 minutes

Physical

Operating Temperature	0 to +50 °C °C
Dimensions (W×H×D)	304.8 mm × 151.4 mm × 120.7 mm mm
Weight	1.5 kg kg

Vertical System (Acquisition)

Number of Channels	2
Analog Bandwidth (-3 dB)	60 MHz
Calculated Rise Time	~5.8 ns
Vertical Resolution	8 bits
Vertical Sensitivity Range	2 mV/div to 5 V/div in 1-2-5 sequence
Input Impedance	1 MΩ ±2% in parallel with 20 pF ±3 pF
Input Coupling	AC, DC, GND
Maximum Input Voltage (1M Ohm)	300 V RMS CAT II
Hardware Bandwidth Limiters	20 MHz

Horizontal System (Timebase)

Max Real-Time Sample Rate	1.0 GS/s on all channels
Max Record Length (Memory Depth)	2500 points
Timebase Range	5 ns/div to 5 s/div
Number of Averages	4, 16, 64, 128

Trigger System

Trigger Modes	Auto, Normal, Single
Trigger Coupling	AC, DC, Noise Reject, HF Reject, LF Reject
Trigger Sources	CH1, CH2, EXT, EXT/5, AC Line
Trigger Types	Edge, Video
Video Trigger Formats	NTSC, PAL, SECAM
Trigger Level Range (Internal)	±8 divisions from screen center
External Trigger Input Impedance	1 MΩ ±2% in parallel with 20 pF ±3 pF
External Trigger Maximum Input Voltage	300 V RMS CAT II

Measurements and Waveform Analysis

Automatic Measurements	Period, Frequency, Cycle RMS, Mean, Peak-to-Peak
Cursor Types	Voltage, Time
Cursor Measurements	ΔV, Δt, 1/Δt
Waveform Math Operations	Addition (+), Subtraction (-)
Waveform Memory	2 reference waveforms, 5 front-panel setups

Display and User Interface

Graticule Settings	8 × 10 divisions
--------------------	------------------

Connectivity and Expansion

Probe Compensator Output	approx. 5 V into ≥1 MΩ load @ 1 kHz
Extension Slot	Supports optional modules (TDS2CMA / TDS2MM) for RS-232, GPIB, and Centronics printer interfaces

Environmental and Safety Standards

Storage Temperature Range	-20 °C to +60 °C
Operating Altitude Limit	Up to 2,000 m
Storage Altitude Limit	Up to 15,000 m

Standard Accessories and Options

Standard Probes Included	Two P2100 10X passive probes
Option Modules Available	TDS2CMA (Communications), TDS2MM (Measurement Extension)

Vertical System

Channel-to-Channel Isolation	≥ 100:1 at 60 MHz (with equal volts/div settings)
------------------------------	---

Storage & Memory

Setup Memory	5 internal front-panel setups
--------------	-------------------------------

Power & Environmental

Power Consumption	Less than 20 W
Cooling Method	Convection cooled (fanless)

Certifications & Compliance

Safety Standards	UL3111-1, CSA C22.2 No. 1010.1, EN61010-1
------------------	---

Display

Display Resolution	320 × 240 pixels
--------------------	------------------

Environmental

Pollution Degree	Pollution Degree 2 (indoor use only)
Installation Category	CAT II

TECHNOLOGY

Digital Storage Oscilloscope (DSO)

APPLICATIONS

Electronic testing, waveform analysis, educational labs, repair and maintenance

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.