

TEKTRONIX

TDS3032B

The Tektronix TDS3032B is a 300 MHz, 2-channel Digital Phosphor Oscilloscope (DPO) from the TDS3000B series. Known for its compact and lightweight design, it features a 2.5 GS/s maximum real-time sample rate, a 9-bit vertical resolution, and built-in continuous waveform capture technology at 3,600 waveforms per second to quickly uncover anomalies. Standard features include an integrated Ethernet port, 25 automatic measurements, FFT capabilities, and an intuitive QuickMenu multi-language interface.

SPECIFICATIONS

General

Interfaces	10Base-T LAN, Centronics (Parallel); optional GPIB, RS-232, and VGA via expansion modules
Display	6.4-inch (162 mm) Full VGA (640 × 480) color LCD

Physical

Power Supply	100 to 240 V AC ±10%, 47 to 63 Hz; 115 V AC ±10%, 400 Hz; 75 W max
Operating Temperature	0 to +50 °C
Dimensions (W×H×D)	375 × 176 × 149 mm
Weight	3.2 kg

Vertical System

Bandwidth	300 MHz
Number of Channels	2
Analog-to-Digital Resolution	9 bits
Input Impedance	1 MΩ ±1% or 50 Ω ±1%
Input Coupling	AC, DC, GND
Maximum Input Voltage (1 MΩ)	150 VRMS
Maximum Input Voltage (50 Ω)	5 VRMS with peaks <30 V
Vertical Sensitivity Range	1 mV/div to 10 V/div (1 MΩ); 1 mV/div to 1 V/div (50 Ω)
Calculated Rise Time	1.2 ns (typical)
DC Gain Accuracy	±2% (Sample or Average acquisition mode)
Selectable Bandwidth Limits	20 MHz, 150 MHz
Input Capacitance (1 MΩ)	13 pF ± 2 pF

Horizontal System

Maximum Real-Time Sample Rate	2.5 GS/s
Record Length	10,000 points per channel
Time Base Range	2 ns/div to 10 s/div
Time Base Accuracy	±20 ppm over any ≥1 ms time interval

Acquisition System

Maximum Waveform Capture Rate	3,600 wfms/s
Acquisition Modes	Sample, Peak Detect, Envelope, Average, WaveAlert™
Minimum Glitch Capture (Peak Detect)	1 ns

Waveform Measurements and Math

Automatic Measurements	25
Advanced Math and FFT	Standard

Features

Waveform Anomaly Detection	WaveAlert™ automatic detection standard
User Interface	QuickMenu Graphical User Interface, Multi-language support

Connectivity and I/O

Ethernet/LAN	Standard 10Base-T
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Power Requirements

Battery Operation Option	Optional internal battery pack (TDS3BATB) for up to 3 hours operation
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Environmental and Compliance

Non-operating Temperature	-40 °C to +71 °C
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Physical Characteristics

Weight (Packaged)	5.8 kg
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Trigger System

Trigger Modes	Auto, Normal, Single Sequence
Standard Trigger Types	Edge, Video, Logic, Pulse
Trigger Coupling	DC, AC, HF Reject, LF Reject, Noise Reject
Trigger Holdoff Range	250 ns to 10 s

Power

Power Consumption	75 W maximum
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Environmental

Operating Altitude	Up to 3,000 m (10,000 ft.)
Non-operating Altitude	Up to 15,000 m (50,000 ft.)
Operating Humidity	20% to 90% RH below 30 °C; 20% to 45% RH from 30 °C to 50 °C

Compliance

Safety Certifications	UL3111-1, CSA1010.1, EN61010-1, IEC61010-1
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Display

Display Type	6.5-inch (165 mm) active matrix color LCD
Display Resolution	640 x 480 pixels (VGA)

Inputs

Probe Interface	TekProbe BNC
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Data Storage

Standard Removable Storage	Built-in 3.5-inch 1.44 MB floppy disk drive
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Expansion

Application Module Slots	4 front-panel slots
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Accessories

Standard Included Probes	Two P6139A (500 MHz, 10X, 8 pF passive probes)
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Power Supply

Battery Operating Time	Approximately 3 hours (with optional TDS3BATB or TDS3BATC battery pack)
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TECHNOLOGY

Digital Phosphor Oscilloscope (DPO)

APPLICATIONS

Electronic design and debugging, telecommunications equipment testing, video design, and industrial control troubleshooting.

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