TEKTRONIX

2465A

The Tektronix 2465A is a professional 350 MHz, 4-channel analog oscilloscope from the classic 2400 Series. Renowned for its crisp CRT display, sophisticated cursor measurements, on-screen readout, and high reliability, it serves as a staple in vintage and modern electronic testing environments.

SPECIFICATIONS

General

Interfaces	GPIB (via Option 10)
Display	CRT, 8×10 cm graticule, with on-screen readout and cursors
Warm-up Time	20 minutes

Physical

Power Supply	90 V to 250 V AC, 48 Hz to 440 Hz, 120 W maximum
Operating Temperature	-15 °C to +55 °C °C
Dimensions (W×H×D)	329 mm × 160 mm × 439 mm mm
Weight	9.3 kg kg

Vertical System

Number of Channels	4
Analog Bandwidth (-3 dB) (CH 1, CH 2)	350 MHz
Analog Bandwidth (-3 dB) (CH 3, CH 4)	350 MHz
Calculated Rise Time (CH 1, CH 2)	1 ns
Deflection Factor Range (CH 1, CH 2)	2 mV/div to 5 V/div
Deflection Factor Settings (CH 3, CH 4)	0.1 V/div and 0.5 V/div
Input Impedance (CH 1, CH 2)	1 MΩ || 15 pF or 50 Ω (selectable)
Input Impedance (CH 3, CH 4)	1 MΩ || 15 pF
Input Coupling (CH 1, CH 2)	AC, DC, GND
Input Coupling (CH 3, CH 4)	DC only
Maximum Input Voltage (1 MΩ)	400 V (DC + peak AC)
Maximum Input Voltage (50 Ω)	5 V RMS
Invert Channel Capability	CH 2
Bandwidth Limit	20 MHz
Input Capacitance (CH 1, CH 2)	15 pF ± 2 pF

Horizontal System

A Time Base Sweep Range	500 ms/div to 5 ns/div
B Time Base Sweep Range	50 ms/div to 5 ns/div
Horizontal Magnification	x10
Magnified Sweep Range	Up to 500 ps/div
Horizontal Operating Modes	A, A INTEN, ALT, B (Delayed)
A Sweep Holdoff Range	Continuously variable from normal to at least 10:1

Trigger System

Trigger Coupling Modes	DC, AC, Noise Reject, HF Reject, LF Reject
Trigger Level Range (CH 1, CH 2)	±18 times the Volts/div setting

X-Y Operation

X-Axis Input Source	CH 1
Y-Axis Input Source	CH 2
X-Axis Bandwidth	DC to 3 MHz
X-Y Phase Difference	≤1° (from DC to 1 MHz)

Display & CRT

Active Graticule Area	8 x 10 divisions (1 div = 1 cm)
Phosphor Type	P31
Accelerating Voltage	16 kV
Scale Illumination	Continuously variable

Interfaces & Auxiliary Signals

Calibrator Output Voltage	400 mV into 1 MΩ (40 mV into 50 Ω)
Channel 1 Vertical Signal Output	None (Channel 2 has the Vertical Signal Output)

Power Specifications

Line Frequency Range	48 Hz to 440 Hz

Environmental & Reliability

Operating Altitude Limit	Up to 15,000 feet (4,570 meters)
Non-Operating Altitude Limit	Up to 50,000 feet (15,240 meters)
Vibration Resistance	Meets MIL-T-28800C, Class 3
Shock Resistance	Meets MIL-T-28800C, Class 3 (50 g, 11 ms)

Options & Configurations

Option 01	Digital Multimeter (DMM)
Option 05	TV Waveform Measurement
Option 06	Counter/Timer/Trigger (CTT)
Option 10	IEEE-488 GPIB Interface
Option 11	Probe Power Outputs

Calibrator

Calibrator Current Loop Output	None (no current loop output on this model)

Options

Option 1R	Rackmount configuration

Environmental

Environmental Design Compliance	Designed to meet MIL-T-28800C, Type III, Class 3, Style C

Triggering

A & B Trigger Sensitivity (DC Coupled, CH 1/ CH 2)	0.35 div from DC to 50 MHz, increasing to 1.0 div at 350 MHz

Setup & Memory

Save/Recall Setup Capacity	30 non-volatile front-panel setups
Auto Setup Function	Standard front-panel automatic setup feature

TECHNOLOGY

Analog

APPLICATIONS

Electronic testing, debugging, and measurement