TEKTRONIX

2236A

The Tektronix 2236A is a 100 MHz dual-channel analog oscilloscope belonging to the legacy 2200 Series. Its defining feature is a built-in, integrated 9-digit Counter/Timer/Multimeter (C/T/M) with a dedicated vacuum fluorescent display (VFD) on the front panel, combining precision digital measurement capabilities with a high-performance analog CRT display.

SPECIFICATIONS

General

Display	6-inch rectangular CRT (green P31 phosphor) & 9-digit Vacuum Fluorescent Display (VFD) for C/T/M measurements

Physical

Power Supply	90 to 250 V AC, 48 to 440 Hz, 40 W typical
Operating Temperature	0 to +50 °C °C
Dimensions (W×H×D)	328 mm × 137 mm × 440 mm mm
Weight	7.3 kg kg

Vertical Deflection System

Number of Channels	2
Bandwidth (-3 dB)	100 MHz
Risetime	3.5 ns
Deflection Factor Range	2 mV/div to 5 V/div (in 1-2-5 sequence)
Deflection Factor Accuracy	±2% (15 °C to 35 °C)
Input Impedance (Resistance)	1 MΩ
Input Impedance (Capacitance)	22 pF
Maximum Input Voltage	400 V (DC + peak AC)
Vertical Operating Modes	CH 1, CH 2, ADD, ALT, CHOP
Channel Isolation (Crosstalk)	100:1 or better at 50 MHz
Chop Frequency	250 kHz
Invert Channel Capability	CH 2

Horizontal Deflection System

Time Base Modes	A, A INT, ALT, B
A Sweep Time Range	50 ns/div to 0.5 s/div (in 1-2-5 sequence)
B Sweep Time Range	50 ns/div to 50 ms/div (in 1-2-5 sequence)
Sweep Magnification	x10
Magnified Sweep Time Range	5 ns/div (maximum sweep speed)
Sweep Time Accuracy	±2% (Normal), ±3% (Magnified)

Triggering System

Trigger Sources	CH 1, CH 2, Line, External
Trigger Modes	AUTO, NORM, TV FIELD, SGL SWP
Trigger Coupling	AC, DC, HF REJ, LF REJ
External Trigger Input Impedance	1 MΩ in parallel with 22 pF
External Trigger Maximum Input Voltage	400 V (DC + peak AC)

X-Y Operation

X-Y Mode Deflection Factor	Same as vertical (2 mV/div to 5 V/div)
X-Axis Bandwidth	3 MHz
Phase Difference (X-Y)	±3° from DC to 150 kHz

CRT Display

Display Area (Graticule Size)	8 × 10 div (1 div = 1 cm)
Accelerating Potential	14 kV
Phosphor Type	P31 (Green)
Trace Rotation Control	Front panel adjustable

Counter/Timer/Multimeter (C/T/M)

C/T/M Display	9-digit Vacuum Fluorescent Display (VFD)
Counter Frequency Range	0.1 Hz to 100 MHz
Counter Measurement Functions	Frequency, Period, Width, Delay Time, Delta Time, 1/Delta Time
DMM DC Voltage Range	Up to 500 V
DMM AC Voltage Range	Up to 500 V RMS
DMM Resistance Range	Up to 20 MΩ
Continuity Indicator	Audible Beeper

Signal Outputs & Calibrators

Calibrator Output Frequency	1 kHz ±20%
Calibrator Waveform Shape	Square wave

Power Supply Requirements

Line Voltage Input Range	90 to 250 V AC
Line Frequency Range	48 to 440 Hz

C/T/M System

C/T/M Time Base Reference Frequency	10 MHz
C/T/M Time Base Temperature Stability	±10 ppm
C/T/M Time Base Aging Rate	±5 ppm/year

DMM System

DMM Resolution	3.5 digits
DMM Maximum Common-Mode Voltage	500 V (DC + peak AC)

Environmental

Operating Altitude	Up to 4,570 m (15,000 ft)
Non-Operating Altitude	Up to 15,240 m (50,000 ft)

Vertical System

Vertical Input Coupling	AC, DC, GND

Trigger System

External Trigger Coupling	AC, DC, DC/10

Z-Axis Input

Z-Axis Input Resistance	10 kΩ
Z-Axis Sensitivity	+5 V p-p for noticeable modulation

C/T/M Specifications

C/T/M Display Type	9-digit vacuum fluorescent display (VFD)

DMM Specifications

DMM Maximum Input Voltage	500 V (DC + peak AC)

TECHNOLOGY

Analog

APPLICATIONS

Electronic testing and measurement

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