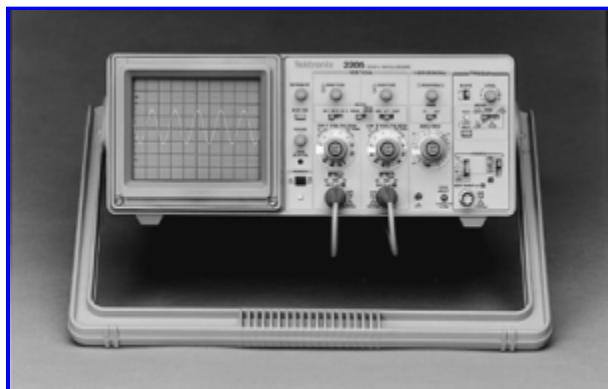


Analog Oscilloscope

2205

This product is no longer carried in our catalog.



Features

- 40 MHz Bandwidth Option 40
- Peak-to-Peak Auto Triggering
- 0.3 div Trigger Sensitivity
- Front Panel Z-Axis Input
- 10 ns/div Max. Sweep Rate

For additional information or to order, contact your local Authorized Tektronix Distributor.

Characteristics

Vertical System (2 Identical Channels)

Bandwidth (-3 dB) and Rise Time: 20 MHz and 17.5 ns (5 to 35 degree C). 15 MHz and 23.3 ns (0 to 40 degree C).

2205 Option 40 Bandwidth (-3 dB) and Rise Time: 40 MHz and 8.75 ns (+5 to +35 degree C). 35 MHz and 10 ns (0 to 40 degree C).

Deflection Factor and Accuracy: 5 mV/div to 5 V/div $\pm 3\%$, (15 to 35 degree C); $\pm 5\%$, (0 to 40 degree C).

Vertical Operating Modes: CH 1, CH 2, CH 2 IN-VERT, ADD, ALT, CHOP.

CMRR: At least 10:1 at 10 MHz.

Input R and C: 1 Megohm, 25 pF.

Max Input Voltage: 400 V (DC + peak AC), 800 V p-p.

Channel Isolation: 100:1 at 20 MHz.

Horizontal System

Sweep Speeds: 0.5 s/div to 0.1 μ s/div. (X10 MAG to 10 ns/div).

Accuracy: \pm 3%; Magnified \pm 4% (degrade by 1% outside 15 to 35 degree C).

Horizontal Operating Modes: X1, X10, X-Y.

Trigger System

Trigger Sensitivity: Internal: 0.30 div at 5 MHz, 1.0 div at 30 MHz. External: 40 mV at 5 MHz, 150 mV at 30 MHz (150 mV at 45 MHz for option 40).

Trigger Operating Modes: Peak-Peak AUTO, NORM, TV FIELD, TV LINE, SGL SWP.

Trigger Source: VERT MODE, CH 1, CH 2, LINE, EXT, EXT/10.

Trigger Coupling: AC, DC.

X-Y Operation

Deflection Factors: Same as vertical system.

Bandwidth: X-Axis: 2 MHz. Y-Axis: same as vertical system.

Phase Difference: \pm 3 degree from DC to 50 kHz.

CRT System

Display: 8 cm x 10 cm, 1.8 kV nominal voltage (2205); 6 kV nominal voltage (Opt. 40).

Controls: INTENSITY, TRACE ROTATION, BEAM FIND, FOCUS.

Z-Axis: 5 V causes noticeable modulation. Useable to 5 MHz.

Power Requirements

Line Voltage Range: Low: 95 VAC to 128 VAC. High: 185 VAC to 250 VAC.

Line Frequency: 48 Hz to 440 Hz.

Maximum Power Consumption: 40 W (60 VA).

Environmental Specifications

Instruments meet in part, the environmental requirements of MIL-T-28800D or C for Type III, Class 3, Style D or C equipment as described below.

Ambient Temperature:

Operating: 0 to +40 degree C.

Nonoperating: -55 to +75 degree C.

Humidity: Percent: 95% five cycles, (120 hours) 90% +40 degree C 4 hours. Reference: MIL-T-28800D, paragraph 4.5.5.1.2.2. Tektronix 062-2847-00, II.

Altitude:

Operating: to 4,500 m (15,000 ft.), maximum operating temp decreases 1 degree C per 300 m above 1500 m.

Nonoperating: to 15,000 m (50,000 ft.).

EMC: Meets Class B requirements per VDE 0871-B for radiated and conducted emissions and FCC requirements.

Vibration: Operating: 15 minutes along each of the 3 major axis, 10 Hz to 55 Hz to 10 Hz in one minute cycles. Hold for 10 minutes at 55 Hz. Displ. (in p-p): 0.015.

Shock: Operating: 30 g, 1/2 sine, 11 ms duration, 3 shocks per axis along each major axis. Total of 18 shocks.

Other Characteristics

Safety: UL 1244 listed, Certified to CSA C22.2 No. 231-M89.

Warranty: 1 year; 3 years optional.

Physical Characteristics

Dimensions:

Width (with handle): 380 mm (15.0 in.)

Height: 137 mm (5.4 in.)

Depth (without front cover): 440 mm (17.3 in.)

Net Weight: 6.7 kg (14.8 lb.)

Ordering Information

2205 20 MHz Oscilloscope

Includes: Two 1X test leads (103-0275-00), Operators Manual (070-6717-00), 1 Year Warranty, Power Cord.

Opt. 02: Pouch and Cover

Opt. 3R: Rackmount

Opt. 23: Add two P6119B 1X/10X Probes

Opt. 24: Add two P6103B 10X Probes

Opt. 40: Increase Bandwidth to 40 MHz

Includes: Two P6103B 10X Probes.

International Power Plug Options

Opt. A1: Universal Euro 220 V, 50 Hz. Order 020-0859-00

Opt. A2: United Kingdom 240 V, 50 Hz. Order 020-0860-00

Opt. A3: Australian 240 V, 50 Hz. Order 020-0861-00

Opt. A4: North American 240 V, 50 Hz. Order 020-0862-00

Opt. A5: Switzerland 220 V, 50 Hz. Order 020-0863-00

Probes

Passive Voltage:

1X/10X, switchable, w/o readout. 10 MHz, 120 pF/1 Megohm, 2 m; 100 MHz, 15.3 pF/10 Megohm, 2 m. Order P6119B
60 MHz, 10X, ruggedized, w/o readout. 13.2 pF/10 Megohm, 2 m. Order P6103B
15 MHz, 1X, modular w/o readout. 54 pF/1 Megohm, 2 m. Order P6101B

Current:

20 Amp max, DC to 50 MHz, w/A6302 current probe. Order AM503S
100 Amp max, DC to 15 MHz, w/A6303 current probe. Order AM503S Opt. 03

High Voltage:

1.5 kV 100X, 120 MHz with readout. Order P6009
40 kV 1000X, 75 MHz with readout. Order P6015A Opt. 1R

Specialty:

Logic probe, 16-channel word recognizer/Trigger-TTL. Order P6408

Cameras: Order C-9 Opt. 20, Opt. 1F

Cart: Portable instrument. Order K212

Additional Accessories

Service Manual: Order 070-6716-00

Rackmount Kit: Order 016-0819-03

Self-Study Package Video: Order 068-0289-XX

Carrying Strap: Order 346-0199-00

Transit Carrying Case: Order 016-0792-01

Front Panel Cover: Order 200-3397-00

Accessory Pouch: Order 016-0677-02

Viewing Hoods:

Collapsible. Order 016-0592-00
Binocular. Order 016-0566-00
Polarized. Order 016-0180-00



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