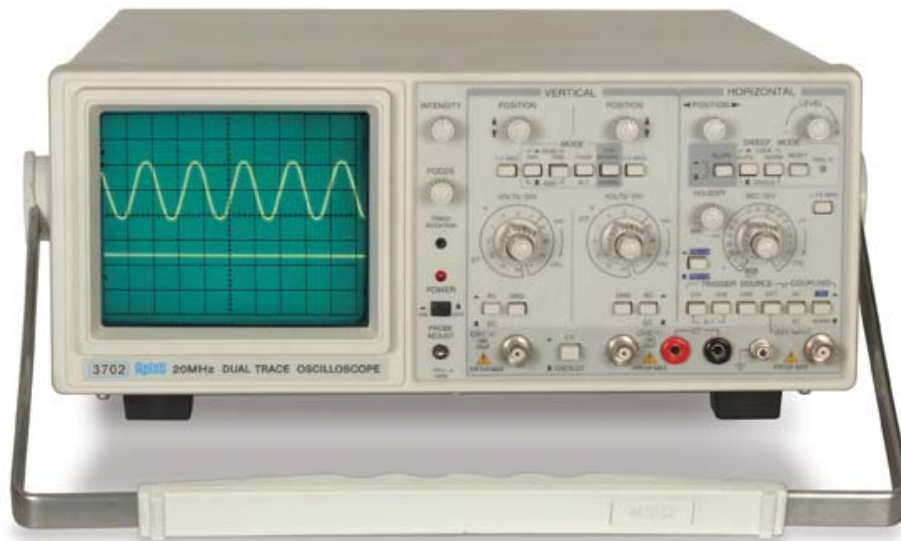


20MHz DUAL TRACE OSCILLOSCOPE



Features

- ★ Elegant
- ★ DC to 20MHz Bandwidth
- ★ 1mV/div Sensitivity on Both Channels
- ★ CH1 & CH2 Independent Channels
- ★ CH1 or CH2 Trigger Signal Output
- ★ Algebraic Addition and Subtraction
- ★ X-Y Operation
- ★ 10ns/div to 0.2s/div Time Base
- ★ Z Modulation TTL Level
- ★ 8 x 10 cm Display Internal Graticule
- ★ TV Triggering Frame (V) & Line (H)
- ★ Line Trigger
- ★ ALT Triggering
- ★ Trigger Lock Facility
- ★ Single Sweep
- ★ Variable Hold Off
- ★ Component Tester

Specifications

VERTICAL DEFLECTION (Y)

| | |
|---|--|
| Deflection Coefficient (CH1 & CH2) | : 1mV/div to 20V/div. 5mV/div to 20V/div in 12 calibrated steps in 1-2-5 sequence. x5 Magnification increases the sensitivity to 1mV/div. |
| Accuracy | : x1 : $\pm 3\%$, x5 : $\pm 5\%$. |
| Variable | : 1 / 2.5 times uncalibrated continuously variable control extends the Deflection Coefficient approx. to 50V/div. |
| Bandwidth | : x1 : DC to 20MHz (-3dB), dc coupled. : 10Hz to 20MHz (-3dB), ac coupled. x5 : DC to 5MHz (dc coupled) 10Hz to 5MHz (ac coupled). |

Rise Time : 18ns or less.

Display Modes : CH1, CH2, DUAL (CH1, CH2 ALT/CHOP), Algebraic ADD and SUBTRACT, CH2 INVT & X-Y (CH1 as X, CH2 as Y).

Input Impedance : 1M ohms // 25pF approx.

Maximum Input Voltage : 400 Volts (dc + peak ac).

Internal Trigger Signal : CH1, CH2 or Alternate.

TRIGGER SIGNAL OUTPUT

Output Voltage : Minimum 100mV for 1 div of CH1 / CH2 trigger signal.

TIME BASE

Sweep Speed : 20 Calibrated steps. 0.1 μ s/div to 0.2s/div in 1, 2 & 5 sequence.

Accuracy : 3%.

Sweep Magnifier : x10 Magnification increases the fastest sweep upto 10ns/div.

Accuracy : \pm 8%.

Variable : Uncalibrated continuously variable control between steps, extends slowest sweep speed to 0.5s/div (approx.).

Hold Off Time : 4:1 continuously variable.

TRIGGER SYSTEM

Sweep Mode : AUTO, NORM, SINGLE.

Source : CH1, CH2, ALT, LINE, EXT.

Slope : Positive or Negative.

Coupling : AC/DC coupling.

Trigger Sensitivity

Internal : Auto : 1.0 div - 20Hz to 20MHz.

Normal : 1.0 div - 10Hz to 20MHz.

Lock : 2.0 div - 50Hz to 10MHz.

Alt : \geq 3div - 50Hz to 20MHz.

External : Auto : 0.3V p-p - 20Hz to 20MHz.

Normal : 0.3V p-p - 10Hz to 20MHz.

Lock : 0.3V - 50Hz to 10MHz.

HORIZONTAL DEFLECTION

Deflection Coefficient : Same as CH1.

Bandwidth : DC - 1MHz (-3dB).

Input Impedance : 1M ohms // 25pF approx.

Phase Difference : \leq 3 $^{\circ}$ (DC - 50KHz).

COMPONENT TESTER

Component Tester allows V-I characteristics of a Device Under Test (D.U.T.).

Test Voltage : 7.5V r.m.s. (approx.).

Test Current : 20mA max. (approx.).

Test Frequency : 50Hz or 60Hz (MAINS).

GENERAL INFORMATION

Cathode Ray Tube : 140mm Rectangular screen, Internal Graticule, 8 x 10 cm, P31 phosphor. Accelerating potential : 2kV.

Z-Modulation : \pm 5V p-p signal upto 2MHz modulates at normal intensity.

Calibrator : Provides 0.5V \pm 2%, 1KHz \pm 2% square-wave output for probe compensation.

Power Requirement : 220V AC \pm 10%, 50Hz \pm 5%, 35VA (max.).

Dimensions : 130 (H) x 320 (W) x 400 (D) mm approx.

Weight : 7.2 Kgs. approx.

Standard Accessories : Instruction Manual, Mains cord, BNC to Crocodile Input Leads - 2 Nos.

Optional Accessories : High impedance switch probe with x1 or x10 attenuation.

Environmental Specifications : Operating conditions Normal : 10 $^{\circ}$ C to 35 $^{\circ}$ C, RH 45% to 85%. Operational : 0 $^{\circ}$ C to 40 $^{\circ}$ C, RH 35% to 90%.

WE PURSUE A POLICY OF CONTINUOUS DEVELOPMENT AND PRODUCT IMPROVEMENT. THUS THE SPECIFICATIONS IN THIS DOCUMENT AND THE LOCATION OF CONTROLS ON THE FRONT PANEL MAY BE CHANGED WITHOUT NOTICE.

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