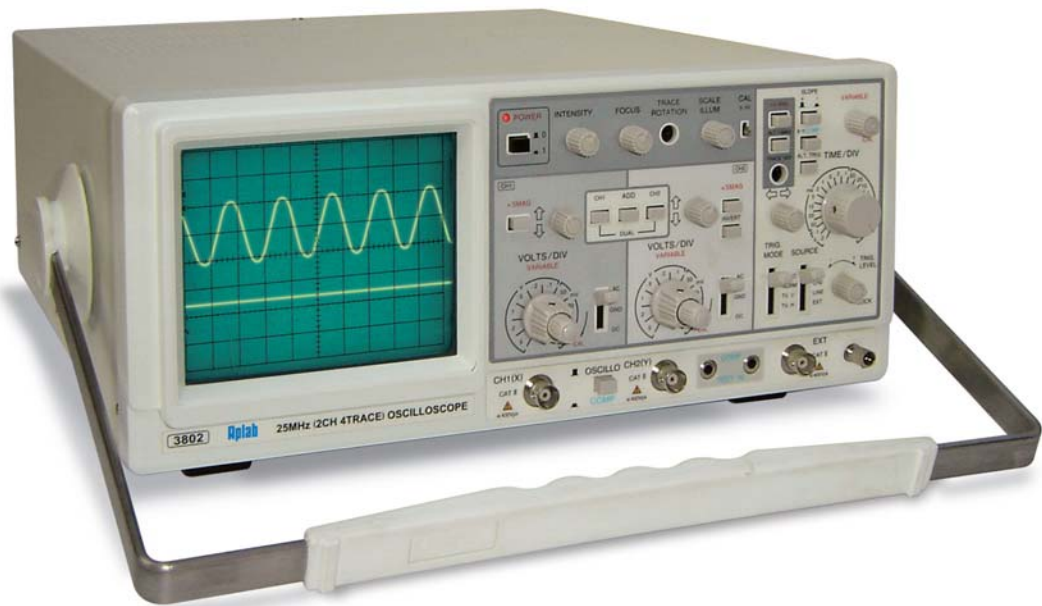


Aplab

25MHz 2 CHANNEL 4 TRACE OSCILLOSCOPE 3802



Features

- Elegant
- DC to 25MHz Bandwidth
- 1mV/div Sensitivity on Both Channels
- CH1 & CH2 Independent Channels
- CH1 Signal Output
- Algebraic Addition and Subtraction
- X-Y Operation
- 20ns/div to 0.2s/div Time Base
- ALT MAG. Trace - Max. 4 Traces
- Scale Illumination
- Z Modulation
- 8 x 10 cm Display Internal Graticule
- Auto Focus
- TV Triggering Frame (V) & Line (H)
- Line Trigger
- ALT Triggering
- C.T. Facility

Technical Specifications

VERTICAL DEFLECTION (Y)

Deflection Coefficient (CH1 & CH2)	: 1mV/div to 5V/div. 5mV/div to 5V/div in 10 calibrated steps in 1-2-5 sequence. x5 Magnification increases the sensitivity to 1mV/div to 1V/div.
Accuracy Variable	: x1 : $\pm 3\%$, x5 : $\pm 5\%$.
Bandwidth	: x1 : DC to 25MHz (-3dB), dc coupled. : 10Hz to 25MHz (-3dB), ac coupled. x5 : DC to 7MHz (dc coupled) 10Hz to 7MHz (ac coupled).
Rise Time	: 14ns 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	: 300 Volts (dc + peak ac).
Internal Trigger Signal	: CH1, CH2 or Alternate.
CH1 SIG OUT	
Output Voltage	: Minimum 20mV for 1 div of CH1 input signal.
Output Impedance	: 50 ohms (approx.).
Bandwidth	: 50Hz to 5MHz.
TIME BASE	
Sweep Speed	: 20 Calibrated steps. 0.1 μ s/div to 0.2s/div in 1, 2 & 5 sequence.
Sweep Magnifier	: x5 Magnification increases the fastest sweep upto 20ns/div.
Accuracy Variable	: $\pm 3\%$. : Uncalibrated continuously variable control between steps, extends slowest sweep speed to 0.5s/div (approx.).
ALT MAG Trace	: x5 magnified sweep is displayed along with normal sweep.
TRIGGER SYSTEM	
Triggering Mode	: AUTO, NORM, TV-V, TV-H.
Source	: INT (CH1 or CH2) / CH2 / LINE / EXT.

Slope	: Positive or Negative.
Coupling	: AC coupling.
Trigger Sensitivity	
Internal	: Auto : 1.5 div - 20Hz to 25MHz. Normal : 1.5 div - 10Hz to 25MHz. Lock : 2.0 div - 50Hz to 20MHz. Alt : ≥ 3 div - 50Hz to 25MHz.
External	: Auto : 0.3V p-p - 20Hz to 20MHz. Normal : 0.3V p-p - 10Hz to 20MHz. Lock : 0.3V - 50Hz to 20MHz.

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	: 9V rms (No Load).
Test Current	: 2mA when shorted.

GENERAL INFORMATION

Cathode Ray Tube	: 140mm Rectangular screen, Internal Graticule, 8 x 10 cm, P31 phosphor. Accelerating potential : 2kV.
Z-Modulation	: ± 5 V 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	: 140 (H) x 335 (W) x 375 (D) mm approx.
Weight	: 7.2 Kgs. approx.
Standard Accessories	: Instruction Manual, 2 High impedance switch probe with x1 or x10 attenuation, Mains cord.
Environmental Specifications	: Operating conditions Normal : 10°C to 35°C, RH 45% to 85%. Operational : 0°C to 40°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.

Aplab Test & Measurement Instruments

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