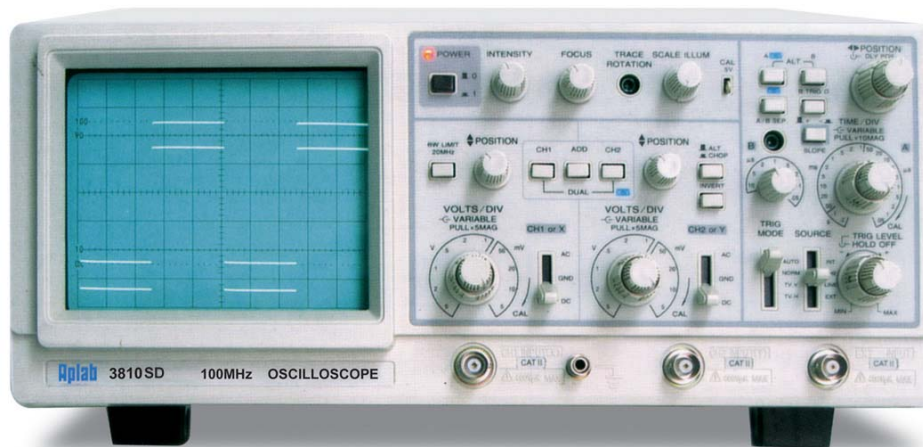


## 100MHz 2 Ch, 4 Trace Delayed Sweep Oscilloscope



### Features

- ★ Elegant
- ★ Surface Mounting Technology
- ★ DC to 100MHz Bandwidth
- ★ 1mV/div Sensitivity on Both Channels
- ★ CH1 & CH2 Independent Channels
- ★ Algebraic Addition and Subtraction
- ★ X-Y Operation
- ★ 5ns/div to 0.2s/div Time Base
- ★ A ALT B SWEEPS - Max. 4 Traces
- ★ A and B Delayed Sweep
- ★ HOLD-OFF Time Adjustable
- ★ Scale Illumination
- ★ Z Modulation
- ★ 8 x 10 cm Display Internal Graticule
- ★ Auto Focus
- ★ TV Triggering Frame (V) & Line (H)
- ★ Line Trigger

### Specifications

#### VERTICAL DEFLECTION (Y)

<b>Deflection Coefficient (CH1 &amp; CH2)</b>	: 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.
<b>Accuracy Variable</b>	: x1 : $\pm 3\%$ , x5 : $\pm 5\%$ .
<b>Bandwidth</b>	: x1 : DC to 100MHz (-3dB), dc coupled. : 10Hz to 100MHz (-3dB), ac coupled. : x5 : DC to 20MHz (dc coupled) : 10Hz to 20MHz (ac coupled).

<b>Rise Time</b>	: 3.5ns or less, 17.5ns (x5 MAG).
<b>Bandwidth Limit</b>	: DC - 20MHz, -3dB.
<b>Display Modes</b>	: CH1, CH2, DUAL (CH1, CH2 ALT/CHOP), Algebraic ADD and SUBTRACT, CH2 INVT & X-Y (CH1 as X, CH2 as Y).
<b>Input Impedance</b>	: 1M ohms // 25pF approx. $\pm 3\text{pF}$ .
<b>Input Coupling</b>	: AC-GND-DC.
<b>Maximum Input Voltage</b>	: 400 Volts (dc + peak ac).
<b>Internal Trigger Signal</b>	: INT, CH2, EXT, LINE
<b>TIME BASE</b>	
<b>Sweep Speed</b>	: A : 21 calibrated steps, 50ns/div to 0.2s/div in 1, 2 & 5 sequence. : B : 8 calibrated steps, 50ns/div to 10 $\mu\text{s}$ /div in 1, 2 & 5 sequence.

<b>Delay Sweep</b>	: Continuous or triggered.
<b>Sweep Magnifier</b>	: x10 Magnification increases the fastest sweep upto 5ns/div.
<b>Accuracy</b>	: x1 : $\pm 3\%$ , x10 : $\pm 5\%$ .
<b>Operating Mode</b>	: A, B, A ALT B, B delayed.
<b>Hold-off Time</b>	: Continuous or triggered.

#### TRIGGER SYSTEM

<b>Triggering Mode</b>	: AUTO, NORM, TV-V, TV-H.
<b>Source</b>	: INT (CH1 or CH2) / CH2 / LINE / EXT.
<b>Slope</b>	: Positive or Negative.
<b>Coupling</b>	: AC coupling.
<b>Trigger Sensitivity</b>	
<b>Internal</b>	: Auto : 1.5 div - 20Hz to 100MHz. Normal : 0.5 div - 10Hz to 10MHz. 1.5 div - 10MHz to 100MHz.
<b>External</b>	: Auto : 0.2V p-p - 20Hz to 100MHz. Normal : 0.2V p-p - 10Hz to 100MHz.
<b>TV Sync.</b>	: Internal : 2 div. External: 1Vp-p.

#### HORIZONTAL DEFLECTION (X-Y)

<b>Deflection Coefficient</b>	: Same as CH1 (CH1 X-axis, CH2 Y-axis).
<b>Bandwidth</b>	: DC - 2MHz (-3dB).
<b>Input Impedance</b>	: 1M ohms // 25pF approx. $\pm 3\text{pF}$ .
<b>Phase Difference</b>	: $\leq 3^\circ$ (DC - 100KHz).

#### GENERAL INFORMATION

<b>Cathode Ray Tube</b>	: 140mm Rectangular screen, Internal Graticule, 8 x 10 cm, P31 phosphor. Accelerating potential : 12kV.
<b>Z-Modulation</b>	: 30V p-p signal upto 2MHz modulates at normal intensity.
<b>Calibrator</b>	: Provides 0.5V $\pm 2\%$ , 1KHz $\pm 2\%$ square-wave output for probe compensation.
<b>Power Requirement</b>	: 220V AC $\pm 10\%$ , 50Hz $\pm 5\%$ , 55W (max.).
<b>Dimensions</b>	: 135 (H) x 322 (W) x 368 (D) mm approx.
<b>Weight</b>	: 7.5 Kgs. approx.
<b>Standard Accessories</b>	: Instruction Manual, 2 High impedance switch probe with x1 or x10 attenuation, Mains cord.
<b>Environmental Specifications</b>	: Operating conditions Normal : 10°C to 40°C, RH 35% to 85%. Operational : 10°C to 40°C, RH 35% to 85%.

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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