

PS-1005 100MHz OSCILLOSCOPE

SPECIFICATIONS

CATHODE RAY TUBE

6 inch diagonal, rectangular screen with internal graticule
8 x 10 div (1 div = 1 cm), P31 phosphor. 14 kV accel
voltage.

VERTICAL DEFLECTION

Bandwidth: DC-100 MHz (-3db)

Sensitivity:

1 mV / div - 1 V / div (25 MHz -3db). x 5 gain selected.
5 m / div - 5 V / div

Attenuator: 1-2-5 sequence. 10 step with variable control.

Input Impedance: $1M\Omega \pm 2\%$, 25 pF ± 10 pF

Max. Input Voltage: 400 V (DC + AC peak).

Rise Time: 5mV/DIV~5V/DIV: 3.5nS ; 1mV/DIV: 14nS

Over Shoot: Less than $\pm 5\%$

Operation Mode: CH 1, CH 2, DUAL.

Algebraic Addition: CH 1 + CH 2, CH 1 - CH 2.

Inverter: CH 2 only.

HORIZONTAL AMPLIFIER

X-Y mode : switch selectable using X-Y switch.

CH 1 : X axis

CH 2 : Y axis

Accuracy: Y-Axis : $\pm 3\%$ X-Axis : $\pm 6\%$

Bandwidth: DC-1 MHz (-3db)

X-Y Phase Difference: Approximately 3° at 50 kHz.

SWEEP SYSTEM

Sweep Display Mode: Main, Mix, Delay.

Hold Off Time: 5:1 continuously variable. (0.1 μ S / div)

MAIN SYSTEM

Sweep Speed:

20 nS/div to 0. 5S/div in 1-2-5 sequence, 23 steps.

Accuracy: $\pm 3\%$

Variable Time Control:

5:1, uncalibrated, continuously variable between steps.

Sweep Magnification:

10X, $\pm 10\%$ extend sweep speed up to 2 nS/DIV.

DELAY SWEEP

Sweep Speed:

20 nS/DIV to 0. 5 S/DIV in 1-2-5 sequence, 23 steps.

Accuracy: $\pm 3\%$.

Sweep Magnification:

10X, $\pm 10\%$, extend sweep speed up to 2 nS/DIV.

Delay Time Position:

Variable control to locate desirable waveform for extending.

TRIGGERING

Trigger Coupling: AC, TV-V(DC), TV-H, LINE.

Trigger Source: CH 1, CH2, ALT, EXT.

Slope: \pm

Trigger Sensitivity:

COUPLING	BANDWIDTH	INT	EXT
TV-V(DC)	DC 1kHz	1.0 div	0.1 Vp-p
TV-H	1kHz-100 kHz	1.0 div	0.1 Vp-p
AUTO	100Hz-100 MHz	2.0 div	0.2 Vp-p
NORM	100Hz-100 MHz	2.0 div	0.2 Vp-p

CH 2 OUTPUT

Output level:

100 mV / div (no load). 50 mV / div (with 50 Ω load).

Bandwidth: 20 Hz - 20 MHz (-3db).

Graticule Illumination: Adjustable.

Calibrator: Square wave 1 KHz $\pm 10\%$, 0.5 Vp-p $\pm 3\%$

Z-Modulation:

Positive TTL signal, low level blank intensity at any intensity,
high level unblank any intensity.

Trace Rotation: Adjustable on front panel.

Power Source: 115V/230V AC $\pm 10\%$, 50/60 Hz.

Power Consumption: Approx. 60 Watts

Dimensions: 324 (W) x 398 (D) x 132 (H) mm.

Net Weight: Approx. 8.5 kg.

Rated Range of Use: 10 $^\circ$ C - 35 $^\circ$ C, 10-80% R.H.

Limits of Operation: 0 $^\circ$ C - 50 $^\circ$ C, 10-80% R.H.

Storage Environment: - 30 $^\circ$ C - 70 $^\circ$ C, 10-90% R.H.

CE STANDARD:

E.M.C. Regulations-1992 (E.C. Directive 89/336/EEC)

EN 50081-1 Emissions

EN 50082-1 Immunity



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