

PS-205 20MHz OSCILLOSCOPE

SPECIFICATIONS

CATHODE RAY TUBE

6 inch diagonal, rectangular screen with internal graticule
8 x 10 div (1 div = 1 cm), P31 phosphor. 2.1 kV accel
voltage.

VERTICAL DEFLECTION

Bandwidth: DC-20 MHz (-3db)

Sensitivity:

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

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

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

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

Rise Time: Less than 17.5nS.

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

Operation Mode: CH 1, CH 2, DUAL (ALT, CHOP).

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. ($0.1 \mu s / div$)

MAIN SYSTEM

Sweep Speed:

0.1 $\mu s / div$ to 0.2 s / div in 1-2-5 sequence, 20 steps.

Accuracy: $\pm 3\%$

Variable Time Control:

5:1, uncalibrated, continuously variable between steps.

Sweep Magnification:

10X, $\pm 10\%$ (0.2 s - 0.2 $\mu s / div$), extend sweep speed up to
10 ns / div.

DELAY SWEEP

Sweep Speed:

0.1 $\mu s / div$ to 0.2 s / div in 1-2-5 sequence, 20 steps.

Accuracy: $\pm 3\%$.

PINTEK

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Sweep Magnification:

10X, $\pm 10\%$ (0.2 s - 0.2 $\mu s / div$), extend sweep speed up to
10 ns / div.

Delay Time Position:

Variable control to located desirable waveform for extending.

TRIGGERING

Trigger Coupling: AUTO, NORM, TV-V, TV-H

Trigger Source: H 1, CH2, ALT, LINE, EXT.

Slope: \pm

Trigger Sensitivity:

COUPLIN	BANDWIDTH	INT	EXT
TV-V	DC 1kHz	1.0 div	0.1 Vp-p
TV-H	1kHz-100 kHz	1.0 div	0.1 Vp-p
AUTO	100Hz-20 Mhz	1.5 div	0.1 Vp-p
NORM	100Hz-20 MHz	1.5 div	0.1 Vp-p

COMPONENT TEST

Test Voltage: Max. 6 Vrms (open circuit).

Test Current: Max. 11 mA (shorted).

Test Frequency: Line Frequency.

Components:

Capacitor, Inductor, Diode, Transistor, Zener, etc.

CH 2 OUTPUT

Output level:

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

Bandwidth: 20 Hz - 10 MHz (-3db).

Graticule Illumination: Adjustable.

Calibrator: Square wave 1 Khz $\pm 10\%$, 2 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. 38 Watts

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

Net Weight: Approx. 7.6 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.



IEC 1010
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SALES AGENT