

PS-1000 100MHz PORTABLE OSCILLOSCOPE

SPECIFICATIONS

CRT

Type : Rectangular with integral graticule.
Display Area : 8 x 10 div (1 div = 1 cm)
Accelerating Voltage : 14 kV.
Phosphor : P31.

VERTICAL AMPLIFIERS (CH 1 and CH 2)

Sensitivity :

5 mV / div to 5 V / div (X1 mode).
1 mV / div to 1 V / div (X5 mode).
1-2-5 sequence, 10 step attenuator. Vernier control provides fully adjustable attenuation between steps.

Accuracy :

± 3 % (X1 mode)
± 5 % (X5 mode).

Input Resistance: 1 M Ω ± 2 %.

Input Capacitance: 25 pF ± 10 pF.

Frequency Response:

5 mV to 5 V / div (CAL): DC to 100 MHz (-3 dB).
1 mV / div (CAL): DC to 25 MHz (-3 dB).

Rise Time: Approximately 3.5 ns.

Operating Modes :

CH1: CH 1, single trace.
CH2: CH 2, single trace.
ALT: dual trace, alternating.
CHOP: dual trace, chopped.
ADD: algebraic sum of CH1 + Ch2

Polarity Reversal(Invert): CH 2 only

Maximum Input Voltage: 400V dc+ac pack

Maximum Undistorted Amplitude:

DC-to-120 MHz: 4 divisions.
DC-to-60 Mhz: 8 divisions.

HORIZONTAL AMPLIFIER

(Input through channel 1 input)

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

CH 1 : X axis
CH 2 : Y axis

Sensitivity: Same as vertical channel 2

Accuracy:

Y-Axis : ±3%
X-Axis : ±6%

Input Impedance: Same as vertical channel 2

Frequency Response: DC to 1 MHz typical (-3 dB)
X-Y Phase Difference: Approximately 3° at 50 kHz.
Maximum input Voltage: Same as vertical channel 2

SWEEP SYSTEM

Sweep Speed:

2.0 ns/div to 0.5 s/div in 1-2-5 sequence, 23 steps. Vernier control provides fully adjustable sweep time between steps.

Accuracy: ± 3 %.

Sweep Magnification:

10X, ± 10% extend sweep speed up to 2 ns/div

Holdoff:

Continuously adjustable from NORM to 5 times normal.

TRIGGERING

Trigger Modes: AUTO (free run) or NORM

Trigger Source: CH 1, CH 2, ALT, EXT, LINE

Maximum External Trigger Voltage: 300 V dc + ac peak

Trigger Coupling:

AC : 30 Hz to 120 MHz.

TV - H : Used for triggering from horizontal sync pulses.

TV - V : Used for triggering from vertical sync pulses.

Trigger Sensitivity:

Internal: 1.0 division.
External: 200 mV

OTHER SPECIFICATIONS

Calibration Voltage:

1 kHz (nominal) Positive Square Wave, 0.5 V p-p (±3%)

Trace Rotation: Electrical, front panel adjustable.

Power Requirements:

115, 230 V ±10%, 50/60 Hz, approximately 40W

Dimensions: 324 x 132 x 398 mm (12.8 x 5.2 x 15.6")

Weight: Approximately 8.5 kg (18.7 lbs)

CE STANDARD:

E.M.C. Regulations-1992 (E.C. Directive 89/336/EEC)
EN 50081-1 Emissions
EN 50082-1 Immunity



IEC 1010
EN 61010

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SALES AGENT