30 MHz **Analog Oscilloscopes**

- Delayed sweep in 23 steps
- Built-in component tester for capacitors, inductors, diodes, transistors, zener diodes
- 23 step time base to 0.1 ms/div
- Deluxe handle/tilt stand



Probe, PR-55 High Voltage x1000 Probe, LC-210A Carrying Case

		mode
tions		mode
		2123H
S (CH I and CH 2)	HORIZONTAL AMPLIF	FIER (Input through channel 1 input)
5 mV/div to 5 V/div, 1 mV/div to 1 V/div at x5	X-Y Mode	Switch selectable using X-Y switch. CH 1: X axis
10 steps in 1-2-5 sequence. Vernier control provides full	_	CH 2: Y axis
adjustment between steps	Sensitivity	Same as vertical channel 2
±3%, ±5% at x5	Accuracy	Y-Axis: ±3%. X-Axis: ±6%
I MΩ +2%	Input Impedance	ame as vertical channel 2
25 pF ±10pF	Frequency Response	DC to 1MHz typical (-3 dB), to 6 div horizontal
Frequency Response 5 mV to 5 V/div: DC to 30 MHz (-3dB)	_	deflection
X5: DC to 10 MHz (-3dB)	X-Y Phase Difference	3° or less at 50 kHz
12ns (Overshoot ≤5%)	Max. Input Voltage	Same as vertical channel 2
CH 1: CH 1, single trace	-	·
CH 2, single trace	- CRT	
dual trace, alternating	Туре	Rectangular with internal graticule
dual trace, chopped	Display Area	8 x 10 div (1 div = 1 cm)
agebraic sum of CH 1 + CH 2	Accelerating Voltage	2 kV
CH 2 only	Phosphor	P31
400 V (DC to AC peak)	Trace Rotation	Electrical, front panel adjustable
	COMPONENT TESTER	3
Main, mix (both main sweep and delay sweep displayed).		Resistors, Capacitors, Inductors, and Semiconductors
		6 V rms maximum (open)
	Test Current	11 mA maximim (shorted)
Vernier control provides fully adjustable sweep time		Line Frequency (60 Hz in USA)
		and tregating (see the meanty
	Calibrating Voltage	1 kHz (±10%) Positive Square Wave, 0.2 V p-p (±29
		· · · · · · · · · · · · · · · · · · ·
	Other Spec	ifications
	Within Specified Accuracy	50° to 95°F (10° to 35°C), ≤ 85% RH
		32° to 104° F (0° to 40°C), ≤ 85% RH
Delay Time Position Continuously variable to control percentage of display that is devoted to main and delay sweep		-4° to 158° F (-20° to +70°C)
		Approximately 40 W
ALITO (free run) or NORM TV/V TV/H		7 x 14 .5 x 14.25" (180 x 370 x 440 mm)
A		Approximately 17.2 lbs (7.8 kg)
CITT, CITZ, ALI, EAT, LINE	_	
300 V (DC + AC peak)	Accessori	es <u>Three Year Warrai</u>
	_	
I AC 30 TIZ 10 30 WILLZ	SUPPLIED: Instruction Manual, Two PR-33A x1/x10 Probes or equivalent, AC Power Cord, Spare Fuse	
TV H Used for triggering from horizontal sync pulses		
	S (CH 1 and CH 2) S mV/div to 5 V/div, 1 mV/div to 1 V/div at xS 10 steps in 1-2-5 sequence. Vernier control provides full adjustment between steps ±3%, ±5% at xS 1 MΩ +2% 25 pF ±10pF S mV to 5 V/div: DC to 30 MHz (-3dB) X5: DC to 10 MHz (-3dB) 12ns (Overshoot ≤5%) CH 1: CH 1, single trace CH 2, single trace dual trace, alternating dual trace, alternating dual trace, chopped agebraic sum of CH 1 + CH 2 CH 2 only 400 V (DC to AC peak) Main, mix (both main sweep and delay sweep displayed), or Delay (only delay sweep displayed), XY 0.1 μs/div to 2.0 s/div in 1-2-5 sequence, 23 steps Vernier control provides fully adjustable sweep time between steps ±3% 10X, ±5% 0.1 ms/div to 0.1s/div in 1-2-5 sequence, 23 steps Continuously variable for Main sweep up to 10 times normal Continuously variable to control percentage of display	S (CH 1 and CH 2) S mV/div to 5 V/div, 1 mV/div to 1 V/div at x5 10 steps in 1-2-5 sequence. Vernier control provides full adjustment between steps ± 3%, ±5% at x5 1 MΩ + 2% 25 pF ± 10pF S mV to 5 V/div. DC to 30 MHz (-3dB) X5: DC to 10 MHz (-3dB) X5: DC to 10 MHz (-3dB) 12ns (Overshoot ≤5%) CH 1: CH 1, single trace CH 2, single trace dual trace, alternating dual trace, chopped agebraic sum of CH 1 + CH 2 CH 2 only 400 V (DC to AC peak) Main, mix (both main sweep and delay sweep displayed), or Delay (only delay sweep displayed), Vernier control provides fully adjustable sweep time between steps ± 3% 0.1 ms/div to 0.1s/div in 1-2-5 sequence, 23 steps Vernier control provides fully adjustable sweep time between steps ± 3% 10x, ±5% 0.1 ms/div to 0.1s/div in 1-2-5 sequence, 23 steps Continuously variable for Main sweep up to 10 times normal Continuously variable to control percentage of display that is devoted to main and delay sweep AUITO (free run) or NORM, TV-V, TV-H CH 1, CH 2, ALT, EXT, LINE 300 V (DC + AC peak) HORIZONTAL AMPLIF X-Y Mode Sensitivity Accuracy Input Impedance Frequency Response CRT Iype Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTER Components Tested Test Voltage Test Current Test Frequency Other Spec Galibrating Voltage Other Spec Within Specified Accuracy Full Operation Storage Power Requirements All other operating specific Dimensions (WAHAD) Weight Accuracy

TRIGGER SENSITIVITY

Coupling

Auto

Norm

TV-V

TV-H

Bandwidth

DC -1kHz

100Hz - 40MHz

100Hz - 40MHz

1 kHz - 100kHz

Int

1.5 div.

0.5 div

0.5 div

Ext

≥ 0.1Vp-p

≥ 0.1Vp-p

≥ 0.05Vp-p ≥ 0.05Vp-p