Data Sheet



Analog Oscilloscopes With Probes2100C Series



B&K Precision's 212x Series are dual trace oscilloscopes that offers high performance at a low price. Most competitor's entry level oscilloscopes have a 20 MHz bandwidth, while B&K Precision's 212x Series have a bandwidth of 30-60 MHz.

These oscilloscopes are built by and backed by B&K Precision, a company that has been selling reliable, durable, value priced test instruments for over 60 years.

Common Features & Benefits

- Dual or single trace operation
- 5 mV/div sensitivity
- Calibrated 23-step time base with X10 magnifier
- Video sync trigger
- Alternate/chop sweep
- Sum and difference capability

Additional Features

- Built-in component tester (2125C only)
- Built-in 50 MHz frequency counter (2121C only)
- Delayed time base
- Main, Mix, Delay, X-Y sweep modes

Specifications	2120C	2121C	2125C	2160C
Bandwidth	30 MHz	30 MHz	30 MHz	60 MHz
Sweep Time		0.1 μ s/div to 2 s/div		20 ns/div to 5 s/div
Component Tester	-	-	V	V
Counter	-	V	-	-





Specifications	2120C & 2121C
VERTICAL AMPLIFIERS (CH 1 and CH 2)
Sensitivity	5 mV/div to 5 V/div, 1 mV/div to 1 V/div at X5
Attenuator	10 steps in 1-2-5 sequence. Vernier control provides
	full adjustment between steps
Accuracy Input Peristance	±3%, ±5% at X5 I MΩ ±2%
Input Resistance Input Capacitance	25 pF ±10 pF
Frequency Response	5 mV to 5 V/div: DC to 30 MHz (-3dB). X5: DC to 10 MHz (-3dB)
Rise Time	12 ns (Overshoot ≤ 5%)
Operating Modes	CH 1: CH 1, single trace
CH 2	CH 2, single trace
ALT	dual trace, alternating
СНОР	dual trace, chopped
ADD	agebraic sum of CH 1 + CH 2
Polarity Reversal	CH 2 only
Maximum Input Voltage	400 V (DC + AC peak)
SWEEP SYSTEM	0.1 / 2 / 1.2.5
Sweep Speed	0.1 µs/div to 2 s/div in 1-2-5 sequence, 23 steps, Vernier control provides fully adjustable sweep time between steps.
Accuracy	±3%
Sweep Magnification	10x
TRIGGERING	ALITO (fee- min) MODAL TOUTH
Triggering Modes	AUTO (free run) or NORM, TV-V, TV-H CH I, CH 2, ALT, EXT, LINE
Trigger Source Max External Trigger Voltage	300 V (DC + AC peak)
Trigger Coupling	AC 30 Hz to 30 MHz
TV H	Used for triggering from horizontal sync pulses
TV V	Used for triggering from vertical sync pulses
TRIGGER SENSITIVITY	
Auto	Bandwidth:100 Hz-30 MHz, Internal: 1.5 div, External: 100 mV
Norm	Bandwidth: DC to 30 MHz, Internal: 1.5 div, External: 100 mV
TV V	Bandwidth: 20 Hz-1 kHz, Internal: .5 div, External: 100 mV
TV H	Bandwidth:1 kHz-100 kHz, Internal: .5 div, External: 100 mV
	(Input through channel 2 input)
X-Y Mode	Switch selectable using X-Y switch. CH 1: X axis, CH 2: Y axis Same as vertical channel 1
Sensitivity Input Impedance	Same as vertical channel 1
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 1
CRT	
Туре	Rectangular with internal graticule
Display Area	8 x 10 div (1 div = 1 cm)
Accelerating Voltage	2 kV
Phosphor	P3 I
Trace Rotation	Electrical, front panel adjustable
Calibrating Voltage	1 kHz (±10%) positive square wave, 2 V p-p (±3%)
COUNTER (2121C)	5 digits 0.24" rad LED digplay at "Ha" or "IdHa" outo range
Display Display Resolution	5 digits, 0.36" red LED, display at "Hz" or "kHz" auto range Auto select from 0.001 Hz to 1 kHz depending on the frequency
Max. Counter Range	0.1 Hz to 50 MHz
Accuracy	+0.01% + 1 digit or 1/99999 + 1 digit
Time Base	18,432 MHz + 10ppm (23 °C ±5 °C)
GENERAL	11
Temperature	Within specified accuracy: 50° to 95°F (10° to 35°C), ≤ 85% RH Full operation: 32° to 104°F (0° to 40°C), ≤ 85% RH storage: -4° to 158°F (-20° to +70°C
Power Requirements	100/120/220/240 VAC ±10%, 50/60 Hz, approximately 40 W.
Dimensions (WxHxD)	7 x 14.5 x 17.25" (180 x 370 x 440 mm)
Weight	17.2 lbs (7.8 kg)
	One Year Warranty
Supplied Accessories	Instruction manual, two PR-33A x1/x10 probes or equivalent, AC power cord and spare fuse
Optional Accessories	PR-32A demodulator probe, PR-37A x1/x10/REF probe, PR-100A x100 probe, PR-55 high voltage x1000 probe, LC-210A carrying case

Sensitivity	5 mV/div to 5 V/div, 1 mV/div to 1 V/div at x5	
Attenuator	10 steps in 1-2-5 sequence. Vernier control provides full adjustment between steps	
Accuracy	± 3%, ± 5% at x5	
Input Resistance	1 ΜΩ +2%	
Input Capacitance	25 pF ±10 pF	
input cupucitance	5 mV to 5 V/div: DC to 30 MHz (-3dB), X5: DC to 10 MHz (-3dB)	
Frequency Response	DC to 60 MHz (-3 dB). Model 2160C	
	X5 MAG: DC to 15 MHz (-3 dB). Model 2160C	
Rise Time	12ns (Overshoot ≤ 5%)	
Operating Modes	CH 1: CH 1, single trace	
CH 2	CH 2, single trace	
ALT	dual trace, alternating	
CHOP	dual trace, chopped	
ADD	agebraic sum of CH 1 + CH 2	
Polarity Reversal	CH 2 only	
Max. Input Voltage	400 V (DC to AC peak)	
SWEEP SYSTEM	100 V (De to Ne peak)	
SWEEP STSTEIN		
Operating Modes	Main, mix (both main sweep and delay sweep displayed), or Delay (only delay sweep displayed), X-Y	
	$0.1 \mu\text{s/div}$ to 2.0s/div in 1-2-5 sequence,	
Main Sweep SpeeD	23 steps Vernier control provides fully adjustable sweep time between steps	
Accuracy	±3%	
	10X, ±5%	
Sweep Magnification		
Delayed Sweep Speed	0.1 ms/div to 0.1s/div in 1-2-5 sequence, 23 steps	
Holdoff	Continuously variable for Main sweep up to 10 times normal	
Delay Time Position	Continuously variable to control percentage of display that is	
	devoted to main and delay sweep	
TRIGGERING		
Triggering Modes	AUTO (free run) or NORM, TV-V, TV-H	
Trigger Source Maximum I	External CH 1, CH 2, ALT, EXT, LINE	
Trigger Voltage	300 V (DC + AC peak)	
	AC 30 Hz to 30 MHz, TV H used for triggering from horizontal sync pulses	
Trigger Coupling	TV V Used for triggering from vertical sync pulses	
TRIGGER SENSITIVIT	ГҮ	
Auto	Bandwidth: 100Hz - 40MHz, Internal: 1.5 div, External: ≥ 0.1Vp-p	
Norm	Bandwidth: 100Hz - 40MHz, Internal: 1.5 div. External: ≥ 0.1Vp-p	
TV-V	Bandwidth: DC -1kHz, Internal: 0.5 div, External: ≥ 0.05Vp-p	
TV-H	1 kHz - 100kHz, Internal: 0.5 div, External: ≥ 0.05Vp-p	
HORIZONTAL AMPLI	FIER (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	
Sensitivity	Y-Axis: ±3%. X-Axis: ±6%	
Accuracy		
Accuracy Input Impedance		
Input Impedance	ame as vertical channel 2	
Input Impedance Frequency Response	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection	
Input Impedance Frequency Response X-Y Phase Difference	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm)	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C)	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm)	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C)	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTE Components Tested	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable Resistors, Capacitors, Inductors, and Semiconductors	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTE	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTE Components Tested Test Voltage Test Current	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted)	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTE Components Tested Test Voltage Test Current Test Frequency	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P3 1 Electrical, front panel adjustable Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted) Line frequency (60 Hz in USA)	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTE Components Tested Test Voltage Test Current Test Frequency Calibrating Voltage	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted)	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTE Components Tested Test Voltage Test Current Test Frequency	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P3 1 Electrical, front panel adjustable Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted) Line frequency (60 Hz in USA) 1 kHz (±10%) positive square wave, 0.2 V p-p (±2%)	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTE Components Tested Test Voltage Test Current Test Frequency Calibrating Voltage	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P3 1 Electrical, front panel adjustable Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted) Line frequency (60 Hz in USA)	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTE Components Tested Test Voltage Test Current Test Frequency Calibrating Voltage GENERAL	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable R Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximim (sported) 11 mA maximim (shorted) Line frequency (60 Hz in USA) 1 kHz (±10%) positive square wave, 0.2 V p-p (±2%) Within specified accuracy: 50° to 95°F (10° to 35°C), ≤ 85% RH	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTE Components Tested Test Voltage Test Current Test Frequency Calibrating Voltage GENERAL	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable R Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted) Line frequency (60 Hz in USA) 1 kHz (±10%) positive square wave, 0.2 V p-p (±2%) Within specified accuracy: 50° to 95°F (10° to 35°C), ≤ 85% RH Full operation: 32° to 104°F (0° to 40°C), ≤ 85% RH Storage: -4° to 158°F (-20° to +70°C)	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTE Components Tested Test Voltage Test Current Test Frequency Calibrating Voltage GENERAL Temperature Power Requirements	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable R Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted) Line frequency (60 Hz in USA) 1 kHz (±10%) positive square wave, 0.2 V p-p (±2%) Within specified accuracy: 50° to 95°F (10° to 35°C), ≤ 85% RH Full operation: 32° to 104° F (0° to 40°C), ≤ 85% RH Storage: -4° to 158° F (-20° to +70°C) 100/120/220/240 VAC ±10%, 50/60 Hz, Approximately 40 W	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTE Components Tested Test Voltage Test Current Test Frequency Calibrating Voltage GENERAL Temperature Power Requirements Dimensions (WxHxD)	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable R Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted) Line frequency (60 Hz in USA) 1 kHz (±10%) positive square wave, 0.2 V p-p (±2%) Within specified accuracy: 50° to 95°F (10° to 40°C), ≤ 85% RH Full operation: 32° to 104° F (0° to 40°C), ≤ 85% RH Storage: -4° to 158° F (-20° to +70°C) 100/120/220/240 VAC ±10%, 50/60 Hz, Approximately 40 W 7 x 14 .5 x 14.25" (180 x 370 x 440 mm)	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTE Components Tested Test Voltage Test Current Test Frequency Calibrating Voltage GENERAL Temperature Power Requirements	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable R Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted) Line frequency (60 Hz in USA) 1 kHz (±10%) positive square wave, 0.2 V p-p (±2%) Within specified accuracy: 50° to 95° F (10° to 35° C), ≤ 85% RH Full operation: 32° to 104° F (0° to 40° C), ≤ 85% RH Storage: -4° to 158° F (-20° to +70° C) 100/120/220/240 VAC ±10%, 50/60 Hz, Approximately 40 W 7 x 14 .5 x 14.25" (180 x 370 x 440 mm) 17.2 lbs (7.8 kg)	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTE Components Tested Test Voltage Test Current Test Frequency Calibrating Voltage GENERAL Temperature Power Requirements Dimensions (WxHxD)	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable R Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted) Line frequency (60 Hz in USA) 1 kHz (±10%) positive square wave, 0.2 V p-p (±2%) Within specified accuracy: 50° to 95°F (10° to 35°C), ≤ 85% RH Full operation: 32° to 104°F (0° to 40°C), ≤ 85% RH Storage: -4° to 158°F (-20° to +70°C) 100/120/220/240 VAC ±10%, 50/60 Hz, Approximately 40 W 7 x 14 .5 x 14.25" (180 x 370 x 440 mm) 17.2 lbs (7.8 kg) One Year Warrant	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTE Components Tested Test Voltage Test Current Test Frequency Calibrating Voltage GENERAL Temperature Power Requirements Dimensions (WxHxD)	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable R Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted) Line frequency (60 Hz in USA) 1 kHz (±10%) positive square wave, 0.2 V p-p (±2%) Within specified accuracy: 50° to 95°F (10° to 35°C), ≤ 85% RH Full operation: 32° to 104°F (0° to 40°C), ≤ 85% RH Storage: -4° to 158°F (-20° to +70°C) 100/120/220/240 VAC ±10%, 50/60 Hz, Approximately 40 W 7 x 14 .5 x 14.25" (180 x 370 x 440 mm) 17.2 lbs (7.8 kg) One Year Warrant Instruction manual, two PR-33A x1/x10 probes or equivalent,	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTE Components Tested Test Voltage Test Current Test Frequency Calibrating Voltage GENERAL Temperature Power Requirements Dimensions (WxHxD) Weight	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable R Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted) Line frequency (60 Hz. in USA) 1 kHz (±10%) positive square wave, 0.2 V p-p (±2%) Within specified accuracy: 50° to 95°F (10° to 35°C), ≤ 85% RH Full operation: 32° to 104° F (0° to 40°C), ≤ 85% RH Storage: -4° to 158° F (-20° to +70°C) 100/120/220/240 VAC ±10%, 50/60 Hz, Approximately 40 W 7 x 14 .5 x 14.25" (180 x 370 x 440 mm) 17.2 lbs (7.8 kg) One Year Warrant Instruction manual, two PR-33A x1/x10 probes or equivalent, AC power cord and spare Fuse	
Input Impedance Frequency Response X-Y Phase Difference Max. Input Voltage CRT Type Display Area Accelerating Voltage Phosphor Trace Rotation COMPONENT TESTE Components Tested Test Voltage Test Current Test Frequency Calibrating Voltage GENERAL Temperature Power Requirements Dimensions (WxHxD) Weight	ame as vertical channel 2 DC to 1MHz typical (-3 dB), to 6 div horizontal deflection 3° or less at 50 kHz Same as vertical channel 2 Rectangular with internal graticule 8 x 10 div (1 div = 1 cm) 2 kV, 12 kV (2160C) P31 Electrical, front panel adjustable R Resistors, Capacitors, Inductors, and Semiconductors 6 V rms maximum (open) 11 mA maximim (shorted) Line frequency (60 Hz in USA) 1 kHz (±10%) positive square wave, 0.2 V p-p (±2%) Within specified accuracy: 50° to 95°F (10° to 40°C), ≤ 85% RH Full operation: 32° to 104°F (0° to 40°C), ≤ 85% RH Storage: 4° to 158°F (-20° to +70°C) 100/120/220/240 VAC ±10%, 50/60 Hz, Approximately 40 W 7 x 14 .5 x 14.25" (180 x 370 x 440 mm) 17.2 lbs (7.8 kg) One Year Warrant Instruction manual, two PR-33A x1/x10 probes or equivalent,	

2125C & 2160C

5 mV/div to 5 V/div, 1 mV/div to 1 V/div at x5

Specifications

Sensitivity

VERTICAL AMPLIFIERS (CH 1 and CH 2)

