Data Sheet

30 MHz Delay Trace Analog Oscilloscope With Probes

Model 2125A

B&K Precision's model 2125A is a dual trace oscilloscope with a delayed sweep that offers high performance at a low price. Most competitor's entry level oscilloscopes have a 20 MHz bandwidth, while B&K Precision's models 2125A has a bandwidth of 30 MHz. This oscilloscope is built by and backed by B&K Precision, a company that has been selling reliable, durable, value priced test instruments for over 50 years.

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

c UL us LISTED

Specifications	2125A
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	±3%, ±5% at x5
Input Resistance	1 MΩ +2%
Input Capacitance	25 pF ±10pF
Frequency Response	5 mV to 5 V/div: DC to 30 MHz (-3dB), X5: DC to 10 MHz (-3dB)
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	
Operating Modes	Main, mix (both main sweep and delay sweep displayed), or Delay (only delay sweep displayed), X-Y
Main Sweep SpeeD	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
Accuracy	±3%
Sweep Magnification	10X, ±5%
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 External CH 1, CH 2, ALT, EXT, LINE	
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: 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 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	ame as vertical channel 2
Frequency Response	DC to 1MHz typical (-3 dB), to 6 div horizontal deflection
X-Y Phase Difference	3° or less at 50 kHz
Max. Input Voltage	Same as vertical channel 2
CRT	
Type	Rectangular with internal graticule
Display Area	8 x 10 div (1 div = 1 cm)
Accelerating Voltage	2 kV
Phosphor	P31
Trace Rotation	Electrical, front panel adjustable
COMPONENT TESTER	
Components Tested	Resistors, Capacitors, Inductors, and Semiconductors
Test Voltage	6 V rms maximum (open)
Test Current	11 mA maximim (shorted)
Test Frequency	Line Frequency (60 Hz in USA)
Calibrating Voltage	1 kHz (±10%) Positive Square Wave, 0.2 V p-p (±2%)
GENERAL	
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 14.25" (180 x 370 x 440 mm)
Weight	Approximately 17.2 lbs (7.8 kg)
	Three Year Warranty
Supplied Accessoriesa	Instruction Manual, Two PR-33A x1/x10 Probes or equivalent, AC Power Cord, 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

www.bkprecision.com
Tel.: 714.921.9095

B&K PRECISION
ELECTRONIC TEST INSTRUMENTS

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

B&K Precision:

2125A