Circuit Design Trainer PB-505A



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Description:

Global Specialties model PB-505A is a robust Circuit Design Trainer suitable for all levels of electronics instruction and design.

The PB-505A allows students to acquire valuable hands-on lab experience by employing necessary breadboarding techniques, which provide a solid foundation in circuit experimentation, analyzing and troubleshooting. It can be used to construct basic series and parallel circuits up to the most complicated multi-stage microcomputer circuits, incorporating the latest in industrial technology.

Experienced designers will also find the PB-505A an invaluable, capable and reliable instrument, suitable for the most advanced and demanding design applications. Global Specialties trainers provide the most complete platform required to enable engineers and technicians to train for careers in the rapidly growing field of electronics technology.

The PB-505A is backed by Global Specialties' industry leading 3-year warranty.

Applications:

- Opto-Device Circuits Clocks Multivibrators Oscillator Circuits Timers Function Generator Circuits Logic Circuits Gates
- Counters Flip-Flops Analog-to-Digital Converters Digital-to-Analog Converters Medium Scale Integration Circuits Phase Lock Loops Operational Amplifier

Features:

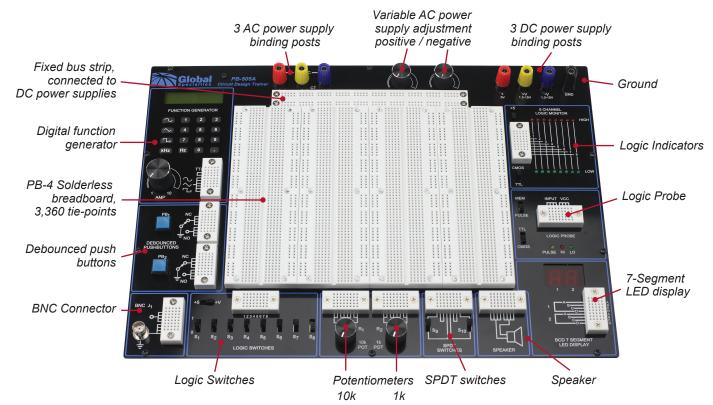
- Ideal for analog, digital and microprocessor circuits
- Includes built-in digital function generator with continuosuly variable waveforms
- Triple output power supply for a variety of DC voltage levels
- Two digital pulsers for logic test circuits
- · High & low buffered logic indicators
- Logic probe
- AC Output
- 2 BCD to LED display circuits
- 8 Channel logic monitor
- · Audio experimentation speaker
- Removable breadboard plate allows the flexibility of building circuits away from the lab
- Analog & digital optional courseware available (Model PB-505ALAB)
- Input power source, AC Line switchable between:

110 - 120VAC @ 60 Hz or 210 - 230VAC @ 50 Hz

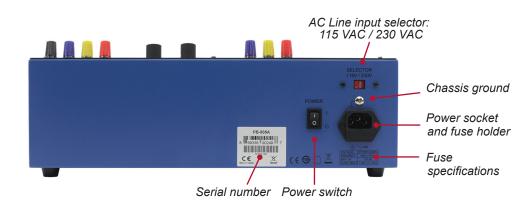
• 3-Year warranty



Front Panel







Accessories

Wide variety of classroom parts available (see examples below)

PB-4

GSC-2311KIT





Specifications:

All specifications apply to the units after a temperature stabilization time of 20 minutes over an ambient range of 20 °C ± 5 °C.

Model	PB-505A		
Power Source	AC Line: 115 VAC @ 60 Hz or 230 VAC @ 50 Hz (switchable)		
Power Supplies	Fixed DC: +5 VDC 1.0 A max. (current limited); Ripple, <5 mV Variable + DC: +1.3 VDC ±0.05 V @150 mA to +15 VDC @ 500 mA, Ripple < 5 mV Variable - DC: -1.3 VDC ±0.05 V @ 150 mA to -15 VDC @ 500 mA, Ripple < 5 mV Fixed AC: 12.6 VAC center-tapped @ 100 mA		
Binding Posts	4 Power Supply Outputs: Ground, +5 VDC, Variable ±VDC, and AC Transformer central tapped (3 posts)		
Pulsers	2 Pushbutton-operated / open collector output pulsers. Each with 1 normally open output and 1 normally closed. Each output sinks up to 250 mA		
Logic Probe	Detects Logic High, Logic Low and Single Shot events. Logic High: 2.2 V (nominal) in TTL mode, 70% de VCC in CMOS mode. Logic Low: 0.8 V in TTL mode, 30% de VCC in CMOS mode. Memory Mode: Detects single shor events and holds indication until Pulse/Mem is toggled		
Digital Function Generator	Frequency Range: 0.1 Hz to 100 kHz, 2 ranges Output Voltage: 0 to + 10 Vp-p into 600 Ω load (20 Vp-p in open circuit), short circuit protected Output Impedance: 600 Ω, except TTL Output Waveforms: Sine, Square, Triangle & TTL Sine Wave Distortion: < 3% @ 1 kHz typical TTL Pulse: Rise & fall time: < 25 ns, drive 100 TTL Square Wave: Rise & fall time: < 0.5 μs		
Logic Switches	8 Logic switches select Logic High and Logic Low Logic Low Level: Ground Logic High Level: switchable between +5 V and the variable positive power supplies		
Switches	2 Single Pole Double Throw (SPDT) - uncommitted		
Logic Indicators	16 LED Bicolores: 8 red to indicate logic high and 8 green to indicate logic low Logic High Threshold: 2.2 V (nominal) in TTL/+5 V mode, 70% (nominal) of selected operating voltage in CMOS mode Logic Low Threshold: 0.8 V (nominal) in TTL/+5 V mode, 30% (nominal) of selected operating voltage in CMOS mode		
Connectors	2 BNC Connectors - uncommitted		
Potentiometers	2 Potentiometers: 1 k Ω and 10 k Ω - uncommitted		
Speaker	8 Ω, 0.25 W - uncommitted		
Displays	2 BCD to 7-Segment display cricuits, 2 red LED and decoder/driver circuitry		
Breadboard	Removable socket plate (PB-4) with 3,360 tie-points with 200 additional bus strip tie-points		
Weight	10 lbs (4.5 kg)		
Dimensions	4.5 x 15 x 10.75 in (11.4 x 38.1 x 27.3 cm) (H x W x D)		
Warranty	3 Years		

Contact Information:

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