PB-507

Advanced Analog & Digital Electronic Design Workstation

The PB-507 contains the following modules:

- DC Power Supply*
- AC Power Supply
- Function Generator*
- Pulse Generator*
- Frequency Counter*
- Logic Indicators
- Logic Probe
- Hex to 7 Segments Decoder
- Debounced Pushbuttons
- Logic switches
- SPDT switches
- BNC connectors
- Potentiometers
- Speaker

*Active module that functions with LCD

Features:

- LCD displays the settings from each active module
- USB connection enables viewing and controlling from a PC
- Choose your power source: 6.3/12.6 V AC power, 5 V DC or variable ±20 V DC
- Draw power from banana plug connections or the tie-point power supplies above each breadboard bus strip
- Powerful 1 MHz bandwidth Function Generator with sine, triangle, and square wave outputs
- Pulse Generator operates like a second, independent Function Generator where you can modify the duty cycle between 10 to 90%
- Frequency Counter module reports on the output of your own specially designed circuits
- Flush-mounted, removable circuit breadboard with over 4,100 contact points

Overview:

The PB-507 Advanced Analog & Digital Electronic Design Workstation, is a powerful, versatile tool for circuit designers, engineers, technicians, students, and hobbyists. All digital controls, USB port, and a wide choice of built-in circuit accessories allow rapid and accurate construction of virtually any type of analog or digital circuit.

New on the PB-507 is an LCD that displays the settings for the active module selected. Simply touch a control element and the LCD switches to that module and displays its settings. Use the USB connection on the PB-507 to control or view the module's values from a PC. Using this feature you can project the controls to a large viewing screen for a classroom to observe and follow.

The breadboard area is the largest in our trainer family and is removable for easy replacement.

The PB-507 is designed to withstand the toughest treatment. It is constructed with the highest quality components for many years of reliable service. The all-digital circuitry allows for easy function verification and calibration.

Global® Specialties

Innovative Training Solutions

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Included Accessories:

- PC Software
- Manual
- Power Cord
- USB Cable
- Calibration Adaptors

Specifications:	
Power	3-wire AC Input with 110 V/220 V Selector Switch
Power Supplies	Fixed 5 VDC @1 A Variable DC - Positive: 0 V to +20 V @0.5 A Variable DC - Negative: 0 V to -20 V @0.5 A Fixed AC - 12.6 V Center-tapped @ 100 mA
Computer Interface	USB 2.0
Function Generator	0.1 Hz to 1 MHz selectable in 7 ranges Output Voltage: 0 to + 10 V (20 Vp-p) Output Impedance: 600 Ω Output Waveforms: Sine, Square, Triangle, TTL
Pulse Generator	Frequency Range: 0.1 Hz to 1 MHz in 7 ranges Output Output Mode: TTL or CMOS (switch selectable) Output Voltage: 0 to 15 Vp-p Duty cycle range: 10 to 90%
Frequency Counter	Frequency Range 0.1 Hz – 1 MHz
LCD Display	LCD Display: Reads Volts, Amps & Frequency
7 Segment Display	(2) BCD to 7 Segment Display Circuits
Logic Indicators	8 Bicolor LEDs: Red (High) and Green (low)
Logic Probe	TTL/CMOS compatible Logic Probe
Logic Switches	(8) Individual Logic Switches
Speaker	0.25 W, 8 Ω
Debounced Pushbuttons	(2) Open Collector Output Pulsers
Switches	(2) Single Pull Double Throw (SPDT)
BNC Connector	(2) BNC Connectors
Potentiometers	1K & 10K Uncommitted
Breadboard	4150 tie points, removable
Voltage Distribution Bus	Tied directly to Power Supply Outputs
Dimensions	5.5” x 16.5” x 12.75” (H x W x D)
Weight	14.5 lbs
Warranty	Limited three-year warranty

Specifications subject to change without notice. Go to globalspecialties.com for the latest update.

Optional Accessories

WK-1: Jumper Wire Kit, 350 pieces

WK-2: Jumper Wire Kit, 140 pieces

WK-3: Jumper Wire Kit, 70 pieces

WK-4: Wire Jumper Kit, 100 wires with machined tips

GSPA Series: Prototyping adaptors

GSPA-K1: Surface mount to DIP adaptor kit, 6 adapter boards

GSPA-K2: Surface mount to DIP adaptor kit, 11 adaptor boards

GSA-3185: Minipro Test Clip Set

CE

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