db-tech

PORTABLE ANALOG/DIGITAL TRAINER

GENERAL DESCRIPTION

The db-tech, DB-905 Portable Analog/Digital Trainer is an ideal teaching aid for all types of electronic circuits, Located all around the 2230 Tie-Point removable breadboard is a variety of functional input and out-put circuits, which can be used to stimulate or measure electrical signals from the circuit under test or develop-ment. The removable breadboard area is not con-nect-ed to these peripheral circuits and is meant to be connected by the user using standard solid AWG #22-30 wire. These circuit functions allow for the bread-boarding and testing of circuits without the need for many expensive individual pieces of equipment.

DB-905

Specification

Technical Data

Completely Self-Contained Unit		
Built-in regulated D.C. supplies:	± 18V, 1A Variable	
	+ 5V @ 1.0A	
	- 5V @ 250 mA	
	18-0-18V & 0-9V 1A AC Constant Supply (Optional) full short circuit protection and indicators	
Function Generator:	1Hz to 100 KHz continuously variable over 5 decade ranges.	
	Sine wave:	variable 0 to ± 4 Vp-p
	Triangle wave:	± 4Vp-p
	Square wave:	± 5Vp-p
3 state logic probe		
Two single shot pulse generators, 80 µs		
8 Bit LED display with buffers		
3.5 Digit Digital Voltmeter:	4 ranges: 199.9mV, 1.999V, 19.99V and 199.9V fsd. LCD Display Input impedance: 4MΩ.	
Analog Current Meter: 0 to 1mA		
2.5 inch 8 Ohm, 1W Loud Speaker		
Two flip-flop gates with "mimic" diagram.		
1K & 100K Potentiometer (Optional)		
Input/Output connector, BNC & Banana		
Two logic switches +5V/0V/ -5V with current limit		
Eight data switches +5V/0V		
Two 25-Pin D-Type connectors for computer interface		
Removable breadboard with 2230 intercon-nected tie-points, accepts 0.3-0.8mm solid wire.		

Applications

- Ohm's law and Kirchhoff's laws
- Controlling current and voltage
- Serial and parallel resistor circuits
- Power and DC circuits
- Algebraic fractions
- Digital switching units
- Binary coding and computer arithmetic
- Logic circuit tracing using Boolean Algebra
- Pulse processing circuits Network theorems
- Applications of trigonometric functions
- Diode networks
- Analyzing transistor circuitry
- Audio amplifier circuits
- Digital systems and trouble shooting
- Time base generators
- Magnetic circuits
- Digital interfacing circuits
- Computer interfacing circuits
- Many others with user manual