LT-700 Portable Analogue/Digital Laboratory Trainer

Model: LT-700

Hotline

01737252881

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Description

- **Solder less Breadboard:** Features a large, removable breadboard with approximately 2230 to 2820 interconnected tie points, suitable for various DIP sizes and solid wires from AWG #22-30.
- **DC Power Supply:** Provides regulated DC power supplies, typically including +5V, -5V, +12V, -12V, and variable voltage outputs.
- **Function Generator:** Includes a built-in function generator capable of producing sine, square, and triangular waveforms across a range of frequencies (e.g., 1 Hz to 110 KHz).
- **Input/Output Components:**
  - **Data Switches:** Eight independent logic-level data switches (+5V/0V) with LED indicators for high/low status.
  - **Pulse Switches:** Two independent, denounced manual pulsar switches.
  - **Logic Probe:** A 2-state logic probe with bi-color LEDs to indicate logic high/low status.
  - **Display:** An 8-bit LED display and a 2-digit 7- segment display with a BCD decoder.
  - **Speaker:** A 2.5-inch, 8-ohm speaker.
- **Interfaces:** Includes 25-pin D-type connectors for computer interface and BNC/banana input/output connectors.
- **Meter:** Often equipped with a 3.5 digit dual-range DC voltmeter/ammeter.

The Experiments of Analog Circuits

Model: LT-700

1. The Superposition Theorem
2. Capacitors in Voltage-Divider Networks
3. Operational Amplifier-The Inverting Amplifier
4. Operational Amplifier-The Non-inverting Amplifier
5. Operational Amplifier-The Comparator
6. Operational Amplifier-The Summing Amplifier
7. The Common-Base Amplifier Structure
8. The Common-Emitter Amplifier Structure
9. The Common-Collector Amplifier Structure
10. The Op amp Differentiator
11. The Op amp Integrator
12. The RC Phase Shift Oscillator
13. The Actable Multivibrator-555 Timer
14. The Schmitt Trigger
15. The Actable Multivibrator
16. The D/A Converter
17. The A/D Converter

The Experiments of Digital Circuits

1. Fundamental Logic Gate - AND, OR, NOT
2. Fundamental Logic Gate - NAND, NOR, XOR
3. Applications of Boolean Algebra
4. De Morgan's Law (I)
5. De Morgan's Law (II)
6. Diode Resistor Logic - AND
7. Exclusive OR Using Basic Logic Gate
8. Exclusive NOR Using Basic Logic Gate
9. Demultiplexer - Using the 74138 IC
10. Synchronous Up - Counter
11. Synchronous Down - Counter
12. The Schmitt Trigger
13. Oscillator - Using CMOS

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