

## FEATURES

- **Completely Self-Contained Unit**
- **Built-in regulated D.C. supplies:**
  - + 5V @ 1.0A
  - 5V @ 0.1A
  - Variable 0 to 18V @ 0.3A
  - Variable 0 to -18V @ 0.3A
  - full short circuit protection and indicators
- **Function Generator:**
  - 1 Hz to 100 KHz continuously variable over 5 decade ranges.
  - Sine wave: variable 0 to  $\pm 4$  Vp-p
  - Triangle wave:  $\pm 4$  Vp-p
  - Square wave:  $\pm 5$  Vp-p
- **3 state logic probe**
- **Two single shot pulse generators, 80  $\mu$ s**
- **8 Bit LED display with buffers**
- **3½ Digit Digital Voltmeter:**
  - 4 ranges: 199.9mV, 1.999V, 19.99V and 199.9V fsd.
  - Input impedance: 4M $\Omega$
- **Analog Current Meter: 0 to 100  $\mu$ A**
- **2¼ inch 8 $\Omega$ , 1W Loud Speaker**
- **Two flip-flop gates with "mimic" diagram**
- **Input/Output connectors, BNC and 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 interconnected tie-points, accepts 0.3-0.8mm solid wire**

## GENERAL DESCRIPTION

The AT-700 Portable Analog/Digital Laboratory 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 output circuits, which can be used to stimulate or measure electrical signals from the circuit under test or development. The removable breadboard area is not connected 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 breadboarding and testing of circuits without the need for many expensive individual pieces of equipment.



THE PORTABLE LABORATORY AT-700

## 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



## ORDERING GUIDE

The AT-700 is shipped with a comprehensive User Manual and Experiment Manual, one jumper wire bag and one wire cutter/stripper tool are also included. There are four options of AT-700 are available:

- AT-700 AC Input with suitcase.
- AT-700-B AC Input bench-top style, without suitcase.
- AT-700-DC DC 24V Input, with suitcase
- AT-700-B-DC DC 24V Input, bench-top style, without suitcase

Weight: 3.3 kgs (Net)

## AC POWER AVAILABLE

AC 100V, 110V, 120V, 200V, 220V, 240V as well as 50Hz, 60Hz, are available.

## OPTIONAL ACCESSORIES

- Jumper wire bag (4 reels, 5M/reel)
- Jumper wire with hard pin (6 different length, 50, 70, 100, 150, 200, 250mm)
- Cutter/stripper tool
- Logic probes AT-301 and AT-302
- IC test clips C-8, 14, 16, 18, 20, 22, 24, 28, 36, 40, 48, 64 are available
- Solderless breadboard B-112A, 124, 135, 147, NB-112P, 124P, 134P, 145P, etc are available

孚揚關係企業

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