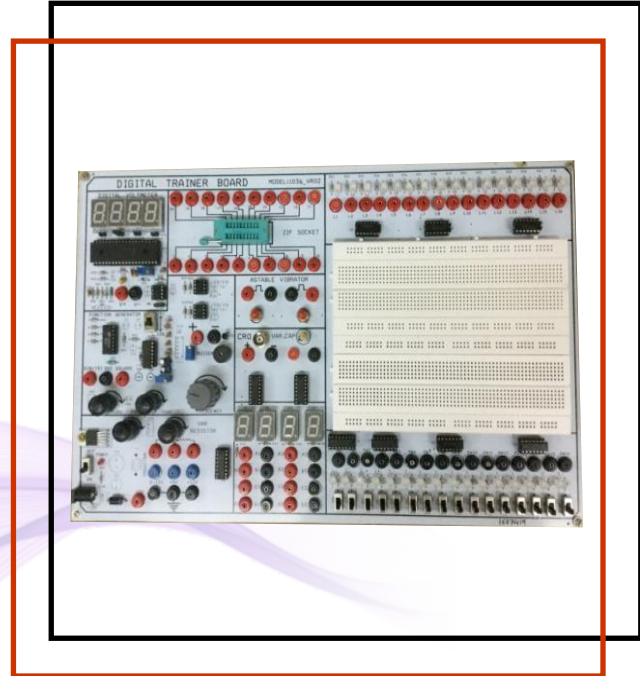


# Semi Conductor Trainer

ATM DA 005

## Technical Specification

- Breadboard Trainer with signal generator & Power supply
- 3-wire AC line input (220V, 50Hz typical) with power-on indicator
- Available in 220-240VAC @ 50Hz
- **Fixed DC Output:** +5V @ 1.0A, ripple<5mV
- **Variable DC Output:** +1.3 V to +15V @ 0.5 A, ripple <5mV
- **Variable DC Output:** 1.3V to -15 V @ 0.5 A, ripple < 5mV
- **Frequency Range:** 0.1 Hz to 100 kHz in six ranges
- **Output Voltage:** 0 to  $\pm 10V$
- **Output Impedance:** 600 $\Omega$  (except TTL)
- **Output Current:** 10mA maximum, short circuit protected
- **Output Waveforms:** Sine, square, triangle
- **Sine Wave:** Distortion <3% (10 Hz to 100kHz)
- **TTL Pulse:** Rise and fall time <25 nS, Drive to 10 TTL loads
- **Square Wave:** Distortion <3% (10 Hz to 100 kHz)
- **Logic Indicators:**8LEDs, active high, 1.4 volt (nominal) threshold, input protected to  $\pm 20$  volts
- **Debounced Push-Button (Pulsers)**
- Two push-button-operated, open-collector output pulsers, each with one normally-open, one normally-closed output. Each output can sink upto 250mA.
- **Potentiometers:** 1k $\Omega$  and 10k $\Omega$ , all leads available and uncommitted
- **BNC Connectors:** Two BNC connectors, pin available and uncommitted, shell connected to ground
- **Switches:** Two SPDT slide switches, all leads available and uncommitted 8-pole DIP switch: one side of all eight switches connected and switches to +5 V or ground, other side of all eight switches separate, available, and uncommitted
- **Speaker:** 0.25 W, 8 $\Omega$
- **Bread boarding Area:** Three UBS-100 sockets with 840 tie-points each for a total of 2520 uncommitted tie-points, Two QT-59B bus strips internally connected to power and ground Fifty tie-points each for +5 V,  $\pm 1.3$  V to  $\pm 15V$ , and ground
- **Enclosure:** High-impact molded case



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