



**OMEGA TYPE ETB-400 BASIC ELECTRONIC TRAINER-1 (Digital Gates)** has been designed specifically to study the principle of and NAND, NOT, OR, NOR, & EX OR gate. The training board offers a new method of training student in the basic theory of digital circuit and make them familiar with basic experiment in digital circuit. Practical experience on this board carries great educative value for Science and Engineering Students.

**OBJECT:**

Study of basic gates & verification of their truth tables (AND, NAND, NOT, OR, NOR & EX-OR Gate).

**FEATURES:-**

The board consists of the following built-in parts:

- 01 +5V DC 100mA Adopter
- 02 NAND Gate
- 03 NOT Gate
- 04 OR Gate
- 05 NOR Gate
- 06 EX-OR Gate
- 07 Switches for logic selection
- 08 LED's for visual indication of status.
- 09 The unit is operative on 230VAC  $\pm 10\%$  50Hz

**OMEGA TYPE ETB-400 BASIC ELECTRONIC TRAINER-2 (Ohm's Law Characteristics )**

Experimental Training Board has been designed specifically for the verification of Ohm's Law & to study the series and parallel combination of Resistance network. This training board is quite useful for imparting the basic knowledge of voltage and current distribution and the effect of series parallel circuit.

**OBJECT**

- 01 Verification of ohm's Law.

**FEATURES**

The board consists of the following built-in parts:

- 01 0-20 V D.C. at 50mA, continuously variable regulated Power Supply.
- 02 D.C. Voltmeter, 0-20V
- 03 D.C. Current meter 0 - 20mA
- 04 Adequate No. of other electronic components.
- 05 Mains ON/OFF switch, Fuse and Jewel light.

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We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

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**OMEGA TYPE ETB-400 BASIC ELECTRONIC TRAINER-3 (Operational Amplifier)** has been designed specifically for the study of OP-AMP IC.

**OBJECTS:**

- 01 Inverting Amplifier
- 02 Non-inverting Amplifier
- 03 Voltage Follower (unity Gain Buffer Amplifier)
- 04 Inverting Summing Amplifier
- 05 Non-inverting Summing Amplifier
- 06 Subtractor & Differential Amplifier
- 07 Division By A Constant
- 08 Square Wave Generator
- 09 Off-set Adjustment In Op-amp Circuits
  - 9.1 For Inverting Amplifier
  - 9.2 For Non-inverting Amplifier
  - 9.3 For Voltage Follower
- 10 Measurement Of Input Offset Voltage ( $v_{io}$ )

**FEATURES**

- 01  $\pm 15$  DC at 100mA IC Regulated power supply
- 02 Two 0-5V at 20mA continuously variable power supply
- 03 One Op-Amp IC-741
- 04 DC Voltmeter 0-5V
- 05 DC Voltmeter 0-20V
- 06 Potentiometer 10K
- 07 10 resistance and 1 Capacitor
- 08 Manse ON/OFF switch fuse Neon Indicator

**OTHER APPARATUS REQUIRED :**

- 01 20MHZ Cathode Ray Oscilloscope
- 02 Sine Square Wave Oscillator  
OMEGA TYPE SS-305
- 03 Digital Multimeter OMEGA TYPE DMM-201

**OMEGA TYPE ETB-400 BASIC ELECTRONIC TRAINER-4 (Zener Diode Characteristics)**

Experimental Training Board has been designed specifically for plotting the forward and reverse bias characteristics of a Germanium semiconductor Diode, and a Zener Diode. The board is absolutely self contained and requires no other apparatus.

**OBJECT: -**

**To Study And Plot The Forward & Reverse Bias (breakdown) Characteristics Of A Zener Diode.**

**OMEGA TYPE ETB-400 BASIC ELECTRONIC TRAINER-5 (PN Junction Diode**

**Characteristics)** Experimental Training Board has been designed specifically for plotting the forward and reverse bias characteristics of a Germanium semiconductor Diode, and a Zener Diode.

**OBJECT**

01 To study and plot the forward & reverse bias characteristics of a Germanium semiconductor Diode.

**FEATURES**

The board consists of the following built-in parts:

- 01 0-10V DC at 100mA, continuously variable regulated Power Supply with low ripple & hum and integral current limiting resistor.
- 02 DC Voltmeter, Duel range of 1/10V
- 03 DC Current meter duel range 50uA/10mA
- 04 A Germanium semiconductor Diode mounted behind the panel.
- 05 A Zener Diode mounted behind the panel.
- 06 Adequate no. of other electronic components.
- 07 Mains ON/OFF switch, Fuse and Jewel light.
- 08 The unit is operative on 230V  $\pm 10\%$  at 50Hz A.C.

**OMEGA TYPE ETB-400 BASIC ELECTRONIC TRAINER-6 (Domestic Ac Mains Supply**

**Trainer)** is used to understand the wiring of Domestic AC mains supply. On the panel s shown but after distribution board wiring is provided. To understand the room wiring of room 1 & room 2 are shown with dotted line on the panel. A three pin socket (5Amp) & a switch in Room 1 and two pin socket & a switch in Room 2 are provided on the panel

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