



Experimental Training Board has been specifically designed to study various parameters and applications of versatile Variable Three Terminal Voltage Regulator IC LM 317. This regulator IC simplifies the design of good quality power supplies. The board is absolutely self contained and requires no other apparatus.

Practical experience on this board carries great educative value for Science and Engineering Students.

**Object:**

- 01 To study and measure the following parameters :
  - (a) Measurement of load regulation of IC LM 317.
  - (b) Study of short circuit shut down of LM 317.
- 02 To study the following applications of IC LM 317 :
  - (a) 1.25 to 20 Volt variable voltage regulator.
  - (b) Increasing the current capacity using external power transistor.
  - (c) Short circuit current limiting by using an external transistor.
  - (d) 0 to 20 Volt variable voltage regulator.

**Features:**

The board consists of the following built-in parts :

01. +25V D.C. at 2 Amp., Unregulated Power Supply.
  02. -6V D.C. at 100mA, Unregulated Power Supply.
  03. Digital voltmeter DC 3½ digits having range 0-20V.
  04. Digital current meter DC 3½ digits having range 0-2 Amp.
  05. IC LM 317.
  06. PNP Power transistor.
  07. Electronic load & Potentiometer.
  08. Adequate no. of other electronic components.
  09. Mains ON/OFF switch and fuse.
- \* The unit is operative on 230V ±10% at 50Hz A.C. Mains.
  - \* Adequate no. of patch cords stackable 4mm spring loaded plug length ½ metre.
  - \* Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections & observation of waveforms.

Note: Specifications are subject to change.

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