OMEGA®

A SIGN OF QUALITY PRODUCT

STUDY OF THE CHARGE AND DISCHARGE OF A CONDENSER THROUGH A RESISTANCE USING NEON BULB

OMEGA TYPE ETB-191

OMEGA TYPE ETB-191 Experimental Training Board has been designed specifically to study the Charge and Discharge of a condenser through a resistance using neon bulb.
Practical experience on this board carries great educative value for Science and Engineering Students.

OBJECT

01 To study the Charge and Discharge of a condenser through a resistance using neon bulb.
02 To study the dependence of the period on the source voltage and deducing striking voltage and extinction voltage of the neon bulb.

FEATURES

The board consists of the following built-in parts :

01 0-300V D.C. at 20mA, I.C. regulated continuously variable and short circuit protected Power Supply with coarse and fine voltage control.
02 Digital Panel Meter (for measurement of DC voltage).

SPECIFICATIONS

Voltage Range: 0-1000 volt.
Resolution : 1V.
Accuracy : ± 0.2% ± 2 digit.
Input
Impedance : 10 M ohms.
Display : 3½ digit, 7 segment LED (12.5mm height)
Auto : Polarity indication.
Over Load Indication : Sign of 1 on left and blanking of other digits.

03 Adequate no. of Resistances and Capacitances.
04 Neon bulb mounted on panel.
05 Mains ON/OFF switch and Fuse.
06 The unit is operative on 230VAC ±10% at 50Hz.
07 Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length 50cm.
08 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/observation of waveforms.
09 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
10 Weight : 2.900 Kg. (Approx.)
11 Dimension : W 340 x H125 x D 210.

OTHER APPARATUS REQUIRED:

01 Digital stop clock OMEGA TYPE DSC-602

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