Power Electronic Training Board has been designed specifically to use a Bridge Rectifier for full wave rectification of sinusoidal ac supply and to determine the relation between r.m.s. and average values of rectified voltage.

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

Object:

01. To connect a Bridge Rectifier for full wave rectification.
02. To measure amplitude of the input and output voltage of Bridge Rectifier with help of CRO.
03. To verify the relation between r.m.s. and average values of rectified O/P voltage.
04. To verify that Moving Iron Type read r.m.s. value and Permanent Magnet Moving Coil Type Instrument read average values of an alternating voltage or current.

Feature:

The board consists of the following built-in parts:

01. Bridge Type Silicon Rectifier
02. Moving Iron Voltmeter 0-50 V AC/DC.
03. Moving Coil Voltmeter 0-50 V DC.
04. Transformers having five tapping of different voltages COM - 10 - 15 - 20 - 25 - 30 V at 0.3Amps.
05. Three Resistances of high wattage as a load (100E/20W, 250E/10W, 500E/5W)
06. Mains ON/OFF Switch, Fuse and Jewel light

* The Unit is operative on 230 ±10% at 50 Hz AC Mains.
* Adequate no. of patch cords stackable 4mm spring loaded plug length 1/2 metre.
* Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms.
* Strongly supported by detailed Operating Instructions, giving details of Object Theory, Design procedures, Report Suggestions and Book References.

Other Apparatus Required:

* Cathode Ray Oscilloscope 20 MHz.

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.
IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tesca.in