



Power Electronic Training Board has been designed specifically to study the working and application of instrument transformer. Measurement of power using Current and Potential Transformers. The setup consists of current Transformer, Potential Transformer, Ammeter, Voltmeter, Watt meter, Variac and Actual Load.

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

Object:

To study an instrument transformers.

1. Current Transformer (C.T.)
2. Potential Transformer (P.T.)
3. To connect instrument transformers (C.T. & P.T.) in electrical circuits for measurement of current, voltage and power.

Feature:

The board consist of following built in parts :

01. Current Transformer (CT) ratio 1 : 10.
 02. Potential Transformer (PT) ratio 10 : 1.
 03. Two digital AC voltmeter 3½ digit seven segment display. To read 1000V ac and 200V ac.
 04. Two digital AC ammeter 3½ digit seven segment display. To read amp. ac and 200mA ac.
 05. Digital low power factor watt meter single phase single element two wire normal input 230 V (0 - 120%) of normal input current (0 - 0.5 Amp) (0 - 125%)
 06. Actual load 300Watt (Three 100 Watt Bulbs and Three switches)
 07. The unit operate 230V ±10% at 50 Hz AC Mains.
 08. Mains ON/OFF Switch and Fuse 2 Amp.
- * 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:

- * Variac INPUT 230 V OUTPUT 0-270 Volt at 2 Amps.

Note: Specifications are subject to change.

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