



Order Code -46505 Single Phase Transformer Lab is an elite training system for the Electrical laboratories. The product helps you to get fully acquainted with the basic concepts and functioning of a Single Phase Transformer.

The product is represented in such an easy way so that each test can be studied differently in proper sequence. The Lab practically expertises you in exercises like Polarity, Turns Ratio, Transformation Ratio, Iron Loss, Copper Loss, Efficiency etc. The varied scope of learning makes the subject understanding complete.

The setup is complete in all respect and requires no other apparatus. Practical experience on this setup carries a great educative value for Science and Engineering students.

OBJECT

01. Study of Polarity Test in a Single Phase Transformer
 - 1.1 Additive Polarity
 - 1.2 Subtractive Polarity
02. Study of Transformation Ratio in a Single Phase Transformer
 - 2.1 Isolation Transformer
 - 2.2 Step Down Transformer
 - 2.3 Step Up Transformer
03. Study of Open Circuit Test in a Single Phase Transformer
04. Study of Short Circuit Test in a Single Phase Transformer
05. Study of Load Test and correspondingly determine the Efficiency and Voltage Regulation in a Single Phase Transformer

FEATURE

The board consists of the following built-in parts:

- 01 Two moving iron 72 x 72 mm AC Voltmeter 0 300 V.
- 02 One moving iron 72 x 72 mm AC Voltmeter 0 50 V.
- 03 Two moving iron 72 x 72 mm AC Ammeter 0 5 Amp.
04. One moving iron 72 x 72 mm AC Ammeter 0 1Amp.
05. Wattmeter single phase, dynamometer type current coil 0.4 Amp. Potential coil 250 Volt 100W
06. Wattmeter single phase, dynamometer type current coil 4 Amp. Potential coil 250 Volt 1000W
07. Auto transformer input 230V, output 0270V at 5 Amp.
08. Transformer:
 - Rating: 1 KVA
 - Primary Voltage: 0 - 125 V, 0 - 125 V
 - Secondary Voltage: 0 - 125 V, 0 - 125 V
09. MCB: 6Amp
10. Load: Two 100W Bulb Provided for Load. & three pin Socket for external Load Provided.
- * The unit is operative on 230V \pm 10% at 50Hz AC Mains.
- * Set of connecting wires.
- * Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

Note: Specifications are subject to change.

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