

**46505C** Transformer System is a rugged training system for the Electrical laboratories mounted on Aluminum profile rack with sturdy table top flat panel. Each panel has ABS molded plastic sturdy enclosure and Metal Powder Coted Boxes with 4mm shrouded connectors showing circuit diagram & its connection tag numbers for easy understanding and connections. The product helps you to get fully acquainted with the basic concepts and functioning of a Single/Three Phase Transformer.



### Experiments

01. To Study the working of Single Phase Transformer and calculate its Turn's Ratio
02. To Study the Polarity Test of Single Phase Transformer
  - 2.1 To Study the Additive Polarity Test of Single Phase Transformer
  - 2.2 To Study the Subtractive Polarity Test of Single Phase Transformer
03. To Study the Open Circuit Test of Single Phase Transformer
04. To Study the Short Circuit Test of Single Phase Transformer
05. To Study the working of Single Phase Transformer with load
06. To Study the working of Single Phase Transformer and measure secondary output Voltage in series & parallel connection
  - 6.1 To Study the working of Single Phase Transformer and measure secondary output Voltage in series connection
  - 6.2 To Study the working of Single Phase Transformer and measure secondary output Voltage in Parallel connection
07. To Study Voltage regulation & rectifier
08. To Study Temperature Rising Experiments of the Single Phase Transformer
09. To Study the working of single phase transformer in combination
10. To Study and measure 30 power of LAMP LOAD in STAR Connection
11. To Study the Open Circuit Test of Three Phase Transformer
12. To Study the Short Circuit Test of Three Phase Transformer
13. To Study the working of Three Phase Transformer with load
14. To Study Temperature Rising Experiments of the Three Phase Transformer
15. To Study the working of Three Phase Transformer and measure secondary output Voltage in star (we) - star (we) Connection
  - 15.1 To Study the working of Three Phase Transformer and measure secondary output Voltage in star - star Connection
  - 15.2 To Study the working of Three Phase Transformer and measure secondary output Voltage in Delta - Delta Connection
  - 15.3 To Study the working of Three Phase Transformer and measure secondary output Voltage in Star - Delta Connection
  - 15.4 To Study the working of Three Phase Transformer and measure secondary output Voltage in Delta - Star Connection

Note: Specifications are subject to change.

**Provide Panels**

	<b>Order Code</b>	<b>Qty.</b>
01 Aluminum Over / Under Voltage Relay Trainer Rack.....	69700	1no.
02 Input Three Phase DOL Starter Panel.....	69701	1no.
03 Multifunction Meter (Single Phase/ Three Phase AC 50Hz).....	69702	2nos.
04 Lamp Load.....	69713	1no.
05 Single Phase Transformer Panel.....	69719	1no.
06 Three Phase Transformer Panel 1KVA.....	69720	1no.
07 Load Bank Panel (Single & Three phase Resistive Load).....	69721	1no.
08 Extension Board.....	69715	1no.

**Specifications of Modules for using Transformer Trainer**

 <p><b>INPUT 3 PHASE DOL STARTER PANEL</b> <b>Order Code - 69701</b></p> <ol style="list-style-type: none"> <li>1. MCB 4 Pole 4Amp.</li> <li>2. Pilot lamps for indication R, Y, B phases</li> <li>3. Contactor 9Amp, 230 VAC</li> <li>4. Push button start, stop &amp; emergency switch</li> <li>5. Shrouded safety socket 4mm for double output</li> </ol>	 <p><b>3 PHASE TRANSFORMER PANEL</b> <b>Order Code - 69720</b></p> <ol style="list-style-type: none"> <li>1. Primary Input 415V RYB three Phase</li> <li>2. Secondary Output 3 No. 120V X 2 at 1.40A</li> <li>3. LCD Temperature Meter</li> <li>4. Shrouded safety socket 4mm for Input/Output</li> </ol>
 <p><b>MULTIFUNCTION METER</b> <b>Order Code - 69702</b></p> <ol style="list-style-type: none"> <li>1. Bidirectional Multifunction Meter</li> <li>2. 3 Phase 4 wire, 440V, Current 5A</li> <li>3. LED display</li> <li>4. Aux supply 230V, 45-65Hz, 5W</li> <li>5. To measure parameters ie Voltage Current.,KVA, Frequency, Power factor, Active Power (W),Reactive Power (vary) etc.</li> <li>6. Shrouded socket 08Nos.</li> </ol>	 <p><b>LOAD BANK PANEL (SINGLE &amp; THREE PHASE RESISTIVE LOAD)</b> <b>Order Code - 69721</b></p> <ol style="list-style-type: none"> <li>1. 3 no. of Single phase resistive load bank of 55 Ohm 500W with One Selector Switch</li> <li>2. 3 no. of Three phase resistive load bank of 111 Ohm, 1000W with Three Selector Switch</li> <li>3. Shrouded safety socket 4mm for Input</li> </ol>
 <p><b>LAMP LOAD PANEL</b> <b>Order Code - 69713</b></p> <ol style="list-style-type: none"> <li>1. 1 3 Nos. Lamp 100W with Holder &amp; switch</li> <li>2. Shrouded socket 12Nos.</li> </ol>	 <p><b>EXTENSION BOARD</b> <b>Order Code - 69715</b></p> <ol style="list-style-type: none"> <li>1. Operating Voltage 230VAC ± 10% at 50Hz</li> <li>2. ON OFF Switch with indicator</li> <li>3. Eight Nos. five pin 5 Amp Electrical Sockets</li> </ol>
 <p><b>1 PHASE TRANSFORMER PANEL</b> <b>Order Code - 69719</b></p> <ol style="list-style-type: none"> <li>1. Panel Consist of 3 no. of Single phase transformer 500W Each.</li> <li>2. 240V Primary Input and 3 No.</li> <li>3. Secondary Output 120V x 2 at 2Amp.</li> <li>4. LCD Temperature Meter</li> <li>5. Shrouded safety socket 4mm for Input/Output</li> </ol>	 <p><b>ALUMINUM TRAINER RACK</b> <b>Order Code - 69700</b></p> <p>Trainer rack madeup aluminium profile size 40×40mm, foldable and light in weight 10 panel setup can be interchange confidently to perform experiments. Dimension Length 1100×Hieght 1000 × Depth 350mm.</p>

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