



55811 Experimental Set-Up has been designed specifically to study the measure of power in a single phase circuit using (i) Three-voltmeter method. (ii) Three-Ammeter method. The set-up consists of Voltmeter, Ammeter, Variac, Fixed resistance in three steps and Variable load. The set-up is complete in all respects and requires no other apparatus. Practical experience on this set up carries great educative value for Science and Engineering Students.

OBJECT

- 01 To measure the power in a single-phase circuit using three Voltmeters.
- 02 To measure the power in a single-phase circuit using three Ammeters.

FEATURES

The complete Experimental Set-up consists of the followings :

- 01 Moving Iron AC portable : In housed in bakelite case with knife edge pointer & anti parallax mirror scale of 140mm voltmeter / ammeter length, spring controlled movement, having accuracy class 1.0.
 - 1.1 Voltmeter range 0–300 Volt : 3 Nos.
 - 1.2 Ammeter range 0–10 Amp. : 3 Nos.
- 02 VARIAC : Variable voltage transformer table/floor mounting with enclosure input 230V, output 0–270V at 8 Amp.
- 03 VARIABLE LOAD : Uses 6 heating rods of 50-70E, 750 Watt each, based on cement asbestos sheet of size 7.75 x 23.75 inch, Output are on terminal with connecting series & parallel connections by switches, to obtain different loads 8.33 to 70 ohms app.
- 04 FIXED RESISTANCE : In three steps Uses 2 heating rods of 50-70E, 750 Watt each, based on cement asbestos sheet of size 6.75 x 14 inch, Output are on terminal with connecting series & parallel connections by switches, to obtain different resistance 100-140E, 50-70E, 25- 35E app.
- 05 Set of connecting wires
- 06 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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