



55810 Experimental Set-Up has been designed specifically to measure the power and power factor in a single phase A.C. circuit. The set-up consists of Voltmeter, Ammeter, Wattmeter, Power factor meter, Variac 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 connect a wattmeter and p.f. meter in a single phase ac circuit for measuring the power and p.f. of a single phase load.
- 02 To verify the relation : $P = VI \cos \phi$ from actual measurement of Power, Voltage, Current and Power factor.

FEATURES

The complete Experimental Set-up consists of the followings :

- 01 Moving Iron AC portable voltmeter / : In housed in bakelite case with knife edge pointer & anti parallax mirror scale of ammeter/wattmeter/power factor meter 140mm length, spring controlled movement, having accuracy class 1.0.
 - 1.1 Voltmeter range 0–300 Volt
 - 1.2 Ammeter range 0–10 Amp.
 - 1.3 Dynamometer type Wattmeter single phase, multi-range, current coil 5/10Amp., Potential coil 75/150/300 Volt.
 - 1.4 Power factor meter single phase current coil 5/10Amp. Potential coil 125/250/500 Volt
- 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 Set of connecting wires
- 05 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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