



55808 Experimental Set-Up has been designed specifically to find the Voltage & Current relationship in a R-L series circuit and to determine the Power Factor of the circuit. The set-up consists of Voltmeter, Ammeter, Wattmeter, Variac, Inductor and Fixed resistance in three steps.

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 find the voltage and current relationship in a R-L series circuit and to determine the power factor of the circuit.

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 140mm length, spring controlled movement, having accuracy class 1.0.
 - 1.1 Two Voltmeter range 0-300 Volt
 - 1.2 Ammeter range 0-10 Amp.
 - 1.3 Watt meter single phase, dynamometer type, Multirange, current coil 5/10 Amp., Potential coil 75/150/300 Volt.
- 02 Digital Voltmeter: 3½ digits having range 200V AC.
- 03 Variac : Variable voltage transformer table mounting with enclosure input 230V, output 0–270V at 8Amp.
- 04 Fixed Resistance: Three steps Uses 2 heating rods of 50- 70 Ohm, 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 100-140 Ohm, 50-70 Ohm, 25-35 Ohm approx.
- 05 Inductor : One.
- 06 Set of connecting wires
- 07 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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