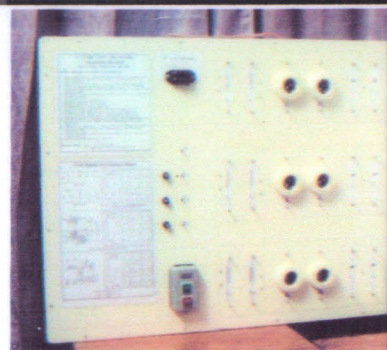


Synchronic Engineering

The sign of excellence

Brand Name : Synchro

Model : ACCNT-13



Item : A C CIRCUITS / NETWORK TRAINER

(Series, Parallel, Series-Parallel, Star, Delta, Modified Circuit)

Features:

- ☛ Trainer is designed to serve professional level of voltage, current, power, load for both 1- ϕ and 3- ϕ .
- ☛ More than 50 numbers of experiments can be performed.
- ☛ Easiest Learning Method.
- ☛ Highest durability.
- ☛ Low cost.

The Following experiments can be performed with this trainer-

1. Study the characteristics of pure resistive circuit and resistive series circuit.
2. Study the characteristics of inductive circuit and inductive series circuit.
3. Study the characteristics of pure capacitive and capacitive series circuit.
4. Study the characteristics of pure resistive parallel circuit.
5. Study the characteristics of inductive parallel circuit.
6. Study the characteristics of pure capacitive parallel circuit.
7. Measuring current and voltage in a R-L series circuit and drawing vector diagram.
8. Measuring current and voltage in a R-C series circuit and drawing vector diagram.
9. Measuring current and voltage in a R-L-C series circuit and drawing vector diagram.
10. Construct vector diagram by measuring current and voltage of a R-L parallel circuit.
11. Construct vector diagram by measuring current and voltage of a R-C parallel circuit.
12. Construct vector diagram by measuring current and voltage of a R-L-C parallel circuit.
13. Determining the value of resistance and inductance of a R-L series circuit and drawing vector diagram.
14. Determining the value of resistance and capacitance of a R-C series circuit and drawing vector diagram.
15. Determining the value of resistance, inductance, capacitance of a R-L-C series circuit and drawing vector diagram.
16. Determining the value of resistance and inductance of a R-L parallel circuit and drawing vector diagram.
17. Determining the value of resistance and capacitance of a R-C parallel circuit and drawing vector diagram.
18. Determining the value of resistance, inductance, capacitance of a R-L-C parallel circuit and drawing vector diagram.
19. Determining the effective or AC resistance of coil.
20. Measuring the active power, reactive power, apparent power of an electrical load and drawing power triangle.
21. Measuring the energy consumed by an electric circuit.
22. Determining power factor of a R, L, C, R-L, R-C, R-L-C series circuit.
23. Determining power factor of a R, L, C, R-L, R-C, R-L-C parallel circuit.
24. Determining phase sequence of 3-phase voltage source.
25. Measuring line and phase voltage & current of 3-phase star connected inductive load.
26. Measuring line and phase voltage & current of 3-phase delta connected inductive load.
27. Measuring line and phase voltage & current of a 3-phase star connected capacitive load.
28. Measuring line and phase voltage & current of a 3-phase delta connected capacitive load.
29. Measuring three phase power by 3-wattmeter method of a balanced 3-phase star connected capacitive load.
30. Measuring three phase power by 3-wattmeter method of a balanced 3-phase delta connected capacitive load.
31. Measuring power and neutral current of a 3 phase-4 wire unbalanced load and drawing vector diagram.
32. Construct vector diagram by measuring current, voltage and power by 2-wattmeter method in a balanced 3-phase star and delta connected inductive load.
33. Construct vector diagram by measuring current, voltage and power by 2-wattmeter method of a balanced 3-phase star and delta connected capacitive load.
34. Measuring resonant frequency of a R-L-C series circuit and Q-factor of the circuit.
35. Measuring resonant frequency of a R-L-C parallel circuit and Q-factor of the circuit.
36. Improving power factor of a plant or load.
37. Study the characteristics of PFI device.

Manufacturing : Assembled in Bangladesh.

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