



FEATURES

- Kit of transparent modules 42 pc
- Commutative panel 1 pc
- Set of connecting wires 6 pc
- Galvanic cell holder 1 pc
- Power supply 1 pc
- Direct-current ammeter 1 pc
- Alternating-current ammeter 1 pc
- Direct-current voltmeter 1 pc
- Alternating-current voltmeter -1 pc
- Milliammeter 1pc
- Laboratory works description 1 pc
- Box for storage 2 pc.

SPECIFICATION

This set is intended for conducting of frontal laboratory works and works of the physical workshop on the section "Electricity and Magnetism" in laboratories and physics offices of secondary schools, vocational schools, colleges, preparatory departments of higher educational institutions.

This set is used in following laboratory work:

01. Drafting of an electric scheme and measuring the amperage at its various point
02. Measurement of voltage at different parts of the electric circuit
03. Regulation of amperage by rheostat
04. Determination of the resistance of the conductor with the aid of an ammeter and voltmeter
05. Determination of the work and power of electric current
06. Determination of the efficiency of the installation with an electric heater
07. Drafting of an electromagnet and testing of its action
08. Study of electric motor of direct current
09. Determination of consumed electricity with the aid of ammeter, voltmeter and clock
10. Determination of the specific resistance of the conductor
11. Sequential and parallel connection of conductors
12. Determination of electromotive force and internal resistance of a current source
13. Observation of the action of a magnetic field on a current
14. Electron charge measurement
15. Sequence connection of conductors
16. Parallel connection of conductors
17. Regulation of current and voltage in circles of direct current
18. Determination of the dependence from the illumination resistance of the semiconductor photoresistor and the photodiode
19. Transistor parameters determination
20. Measuring the resistance of the capacitor in circle of alternating current
21. Determination of the energy of a charged capacitor
22. Measuring the inductance of a coil in circle of alternating current
23. Investigation of electric circuits with inductive, capacitive and active elements, determination of parameters of these elements
24. Determination of the number of turns in the windings of the transformer
25. Investigation of the temperature dependence of the resistance of the semiconductor
26. Study of the volt ampere semiconductor diode characteristics
27. Investigation of electric circle with semiconductor diode
28. Expansion of measurement limits of an ammeter
29. Expansion of measurement limits of the voltmeter
30. Study of resonance in electric oscillatory circuit
31. Study of the Ohm law for circle of alternating current
32. Study of the dependence of the electric resistance on the length of the conductor and the area of its cross-section

Note: Specifications are subject to change.

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