



Description

The DC Motor Control Trainer with SCADA/RTU is a comprehensive, modular training system designed for in-depth study of DC motor operation, control techniques, and power electronics applications. All plug-in modules are interconnected using **19 mm bridging plug sets** and **4 mm stackable safety test leads**, enabling flexible configuration of control circuits for a wide range of experiments. The system is ideal for technical education, engineering laboratories, and vocational training institutes.

Experimental Scope

A. DC Motor Control Experiments

- Starting, directional control, and speed control of DC motors
- Speed control of direct current motors:
 - Shunt-wound or separately excited motors
 - Series-wound motors
- Braking methods of DC motors
- Power electronics-based control of DC motors

Experiment Modules – Electrical Machines

1. DC shunt-wound machine
2. DC series-wound machine
3. DC compound-wound machine
4. Universal AC/DC motor
5. Torque sensor module
6. Torque management software
7. Torque-speed measuring module

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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8. DC generator brake
9. DC variable speed drive
10. Field regulator module
11. AC/DC generator brake controller
12. Digital DC voltmeter
13. Digital DC ammeter
14. Single-phase power supply module
15. Magnetic contactor module
16. Circuit breaker module (3 poles)
17. Pilot lamp module
18. Resistive load module
19. Transformer and rectifier module
20. Push-button switch module (Type I)
21. Push-button switch module (Type II)
22. Push-button switch module (Type III)
23. SCR group module
24. Timer module
25. Current limit protection module
26. AC/DC variable power supply
27. Tachometer
28. Coupling hub, nylon sleeve, and safety guard

Experiment Modules – Power Electronics

1. SCR group module
2. IGBT chopper / inverter module
3. Six-pulse controller module
4. DC power supply module
5. PWM controller module
6. Resistive load module
7. TRIAC module
8. Power MOSFET module
9. Three-phase AC power supply
10. Darlingtion transistor module
11. Safety connecting test lead set
12. Experimental tables (2 units)
13. Experiment panel frames (2 units)

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