

OVERALL DESCRIPTION

The Industrial Controls Training System is designed to teach the theory and techniques of electric motor controllers. The system modules include genuine industrial components of the newest technology, to familiarize students with the operation of actual controllers. The extensive array of modules makes it possible to create setups that fit a large number of training needs.

The training program provides the technical background required for each exercise. Training starts with the basic fundamentals and proceeds through various types of controls encountered in industry.

The Industrial Controls Training System includes over 40 basic and more complex industrial components, including:

- Pushbuttons
- Selector Switches
- Manual Starter
- Contactors
- Control Relay
- Brake Motor
- Time Relay
- Soft Starter
- AC and DC Drives
- Electronic Overload Relay
- Programmable Logic Controller (PLC)
- Speed Switch
- Pilot Lights
- Thermal Overload Relay
- Fuses
- Control Transformer
- Cam Switch
- Interposing Relays
- DC Motor
- Two-Speed Motor
- Single Phase Motor
- Limit Switch
- Photoelectric Sensors
- Proximity Switches

The entire system is fully compatible with existing modular components from Lab-Volt.

Some of the components shown in this leaflet are optional. Contact your Lab-Volt representative to obtain a detailed description of the training system.

Industrial Controls Training System

Series 8036



System shown with optional equipment

Lab-Volt®

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Safety

The Industrial Controls Training System is provided with lockable cutout switch and lockout / tagout devices to help students develop good safety habits.



Mobile Workstation

The Mobile Workstation has the following features:

- Two sides enabling two student groups to work simultaneously.
- Swivelling casters for easy motion of the system.
- Perforations and fasteners to fix motors and sensors.
- Fits through a standard doorway.



System shown with optional equipment

Industrial Components

System modules are equipped with components that are actually found in industry.



Troubleshooting

A number of faults can be inserted by the instructor to develop troubleshooting skills of the students.



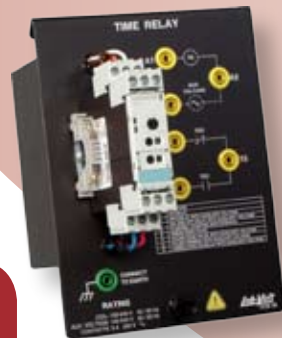
Wiring

Wiring is accomplished easily and safely using banana plug leads. Different cable sizes and lengths are supplied to accommodate all experimental situations. The presence of terminal blocks provides an alternate means of cabling for the low voltage components.



System Flexibility

The system modularity allows a great variety of configurations to suit particular training objectives. Different packages can be chosen among the wide variety of components offered.



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Curriculum

The training program is divided into four main levels covering the various aspects of the industrial controls:

- Basic controls
- Programmable Logic Controller
- Motor Drives
- Sensors

The manuals present the theory and practical aspects surrounding the different modules. They also provide the knowledge to interpret the information located on electrical diagrams and manufacturers' nameplates and labels.