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PLC & MICROCONTROLLER BASED ELEVATOR TRAINING SYSTEM

MOD :AS-PM001

INTRODUCTION

The PLC & Microcontroller-based Elevator Training System is a sophisticated educational platform designed to provide hands-on learning in modern elevator automation. Combining the power of Programmable Logic Controllers (PLC) with microcontroller technology, it simulates real-world elevator operations, enabling detailed control over motor speed, position sensing, and cabin lighting. This dual-system approach mirrors industry practices, offering learners valuable insights into hybrid control strategies. With practical experiments in PLC, microcontroller, and PC-based control, the trainer bridges theoretical knowledge with real-world application. Compactly designed with dimensions of 450 x 400 x 870 mm and operating on a single-phase AC 220V±10% 50Hz/60Hz input, it prepares students and professionals for advanced troubleshooting and optimization in diverse industrial elevator systems.

TECHNICAL SPECIFICATION :

- The elevator trainer represents a cutting-edge educational tool designed to simulate and teach elevator control systems. It leverages the combined power of PLC (Programmable Logic Controller) and microcontroller technology to offer acomprehensive learning experience.
- Complementing the PLC, the microcontroller enhances the trainer's versatility by handling real-time tasks and interfacing with various elevator components.
- It allows for detailed monitoring and control of motor speed, position sensing, and cabin lighting, among other functionalities.
- This dual-system setup not only mirrors industry standards but also equips learners with in-depth knowledge of hybrid control strategies increasingly prevalent in modern elevator systems.
- Through hands-on exercises and simulations, The trainer enables students and professionals to grasp fundamental concepts in elevator automation, from basic operational principles to advanced troubleshooting techniques.
- By bridging theoretical understanding with practical application, it prepares individuals for the complexities and demands of managing and optimizing elevator systems in diverse industrial settings

EXPERIMENT:

- PLC control Experiment, Microcontroller control Experiment,
- PC control Experiment
- Technical Parameter:
- Total Dimension :L x W x H (mm):450 x 400 x 870 ,
- Input power: single-phase, three-wire AC 220V±10%50Hz/60Hz,
- Outputpower: DC 24V safety terminal output,Capacity:200VA, Lift
- Driven by Stepper Motor
- Driven Belt Size: Length–550mm,Width–18mm, PLC module,
- Microcontroller Control Card,PC software
- Items Included:
- 1 x PLC and 1 x LOGO!12/24 RC Software,
- 1 x Microcontroller Control Card,
- Microcontroller Programming Software,
- Power Supply, USB Lead, Curriculum CD,
- Operating Manual, Dust Cover with water Proof.
- Original packing: Each equipment delivered in original pack in a
- single box and end user open the box first time at delivery point.

ACCESSORIES

- Connecting Wire: 1 set
- User Manual: 1
- Standard Accessoriec

OTHERS :

- Origin(Parts) : China,Taiwan, Japan
- Manufacturing: Assemble in Bangladesh
- Inatallation, Training
- Warranty: 01 year