

1. Overview

This set can truly simulate elevator working condition. It can complete lift go up and down, open and close door. The set is composed by working portion, control portion and PC interface. The working portion including various industrial gearing and sensor. It will simulate elevator open closed structure. The control portion has three control methods (PLC, MCU and PC) to complete control operation.

The set is automatically controlled by MCU. Starting control button which is on the interface panel to control the elevator. Additionally, the set can connect with PLC to control the elevator. Rotating change-over switch SA1 to change control method (MCU, PLC or PC).

This set is installed on a PC monitor which can directly monitor the elevator running on PC.

This set is composed by an aluminium training platform, car platform sill, signal transfer part and building show parts.

2. Parameter

- (a) Working pressure: DC24V
- (b) Temperature: -10°C ~ 40°C; Humidity: 90% (25°C).
- (c) Total capacity: 1KVA

3. Description

(a) This set includes a DC motor, car platform sill operation section, digital tube display section, sensor training section. The system is a modular open structure training platform. You can use different brands of PLC or add other training modules as required.

(b) The elevator training set is composed of a baseboard, down car platform sill, stroke limited position institution, call indicator light, car gate, control panel, control motor, sensor and transmission gear. It can collect all signals such as inner choose button signal, outer choose button signal, floor spacing signal, elevator door spacing signal which complete logic control, control of lift car up and down also elevator open and close.

Additionally, power-off protection of the open and close can avoid motor offside operating.

(c) This system uses PC simulation technique by operating and simulating some practical problems.

(e) With configuration software, it offers application guidance and application samples.

(f) Easy to learn with software, soft teaching materials, material database software and so on.

(g) Easy to teach: project and didactic combined. Multi-media and practical software made experiment teaching and theory teaching easy.

Protection: Avoid offside operating by power-off protection.

Note: Specifications are subject to change.

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4. Training Contents.

- Open and close control experiment
- Second floors inside choose up and down, open close control experiment.
- Third floors inside choose up and down control experiment
- Third floors outer call up and down, open and close control experiment.
- Third floors elevator comprehensive control experiment
- PLC control experiment
- MCU control experiment
- PC software control experiment



5, Main part list

Item	Name	Material	Quantity	Unit
1	Training Platform	Aluminium alloy structure	1	Set
2	Car platform		1	Set
3	Floor show	Digital tube display	1	Set
4	Button	Blue	1	Set
5	Car gate	Dark Brown Acrylic Sheet	1	Set
6	Signal change over parts	K4 Terminal	1	Set
7	Connection Cable		1	Set
8	Control mode transition switch		1	PC
9	Testing line		1	Set
10	Case Procedure	CD	1	PC
11	Instruction Book		1	Set

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