The **Advanced PLC Based Elevator/Lift Simulator Module (PCST – 11A)** gives an idea regarding usage of Programmable Logic Controllers in industrial application.

Technical Specification-

No.	Item Name	Technical Specifications
1	PLC-	Make: Siemens Logo / Allen Bradley Micro 810/Equivalent Actual Plant I/O: Digital Inputs: 12, Digital Outputs: 5
2	Motor-	2 Nos. (1 For Up-Down Operation and 1 for Door Open-Close Operation) DC Motor 12V DC operated with pulley mechanism. Torque: 10 Kg/cm^2, 10 RPM
3	Indicating Lamps-	8 Nos., 24 VDC Operated, For position acknowledgements Red – 4 Nos. Orange – 4 Nos.
4	Proximity Sensors-	6 Nos. Type: Inductive 3 wire, 24V DC Operated, PNP NO type, Diameter: 18 mm, Sensing Distance: 5 mm.
5	Push Button-	14 Nos., 24 V DC Operated, Momentary Switch For Lift Calling and Door Open-Close
6	Buzzer-	1 No., 24 V DC Operated, For Error Detection

Range of experiments:

- ❖ Study of PLC Program for Lift.
- ❖ Study of lift position control.
- ❖ Study of sequencing and priority of position of lift.
- ❖ Study of combination logic of lift Operation Control.

Features: -

- ❖ Compact Ergonomic Design.
- ❖ User Friendly, Self Explanatory Systems.
- ❖ Robust Construction.
- ❖ Enhanced Electrical Safety Considerations.
- ❖ Training Manuals, Ladder Diagrams for Operation Ease.
- ❖ M.S. powder coated cubical plant with standard Instrument Mountings.
- ❖ Inbuilt Safety Measures to avoid improper usage.
- ❖ Computer Interface for ladder programming.
- ❖ Four floor lift module.
- ❖ Chain pulley block mechanism.
- ❖ Bidirectional motor controlling the movement of the Lift up and Lift down.
- ❖ Bidirectional motor for controlling the opening and closing of door.
- ❖ Buzzer for Error Detection.
- ❖ Proximity sensors for sensing lift position.
- ❖ Push button switches along with position sensors for motor direction control.
- ❖ PLC with 12 DI/5 DO Configurations & PC-PLC communication cable, standard Program.
- ❖ Caster wheel mounted movable frame

System Dimension: 25" (L) X 13" (W) X 39" (H)

Weight: Approx. 40 Kgs

Note:

All descriptive matter and illustrations are intended to give only a general idea of the equipment Detailed specifications may be altered at the company's discretion without any notice.

Manufactured/Marketed By

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