

Application of PLC S7-300 to control a double elevator for a 7-story building

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Abstract: This topic focuses on applying the S7-300 programmable logic controller (PLC) system to effectively control a dual elevator in a 7-story building. The reason for choosing this topic stems from the need to optimize operation and ensure safety for the elevators. The objective is to design and implement a PLC system to simultaneously control two elevators, ensuring the highest customer service speed and reducing the load on each elevator. The research method includes both theoretical analysis of elevator drive technology and experimental installation of the S7-300 PLC system in a model building. The significance of this topic is to contribute an advanced technological solution for the transportation service industry in high-rise buildings, enhancing operational performance and ensuring user safety.

Keywords: PLC S7-300, Double elevator, 7-story building, Automatic control, Transmission technology