

Design of a 10-floor elevator control system using PLC S7-1200 and monitoring on WINCC

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Abstract: In the context of increasing demand for operational efficiency and safety in high-rise buildings, this topic focuses on designing a 10-floor elevator control system using the PLC S7-1200 to optimize passenger movement. The objective is to develop an automation solution with effective monitoring and management capabilities through the WINCC platform. The research methodology combines PLC system theory with experimentation to build a control model. The expected results of this topic not only provide operators with a useful tool but also contribute to the development of the elevator industry.

Keywords: PLC S7-1200, WINCC, elevator automation, monitoring, performance