

Design of automatic door opening and closing model controlled by PLC S7-200

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Abstract: This topic focuses on designing and implementing an automatic door opening and closing system based on the S7-200 programmable logic controller (PLC). Against the backdrop of increasing demand for management and automatic control in industrial applications, the problem is chosen to address the improvement of door system operational performance by optimizing the opening/closing process. The objective is to build a practical solution that can be widely applied in various fields such as residential and industrial sectors. Through theoretical research combined with application deployment, the topic hopes to provide an efficient and energy-saving system, while making an important contribution to the development of the automation industry.

Keywords: PLC S7-200, automatic door system, industrial management