

Design of automatic paint mixing system using PLC S7-300

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Abstract: In the modern context, the use of technology in the paint industry is increasingly valued to enhance production efficiency. This topic focuses on the design and implementation of an automatic paint mixing system based on the PLC S7-300 to meet industrial requirements. The objective is to build a technical solution that optimizes the mixing process, minimizes waste, and improves accuracy. The research method includes theoretical analysis of PLC automation systems and experimentation with actual equipment. The expected outcome of this topic is to provide a reliable system for the paint industry, while contributing to technological development in this field.

Keywords: PLC S7-300, paint automation, paint color mixing, automation technology, Industry 4.0