

Building a quantitative balance model using PLC S7 1200

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Abstract: This topic focuses on building a quantitative belt scale system based on the Programmable Logic Controller (PLC) S7-1200 platform, meeting the high demands in industrial production. The main objective of the research is to design and implement an automation solution to improve accuracy and performance in the weighing process. The research method combines theory with experimentation to ensure the system operates stably and reliably. The expected results of the topic not only contribute to enhancing the technical capacity of learners but also create a practical application solution for businesses.

Keywords: PLC S7-1200, belt scale automation, accuracy