

Design of a measurement circuit for a 20-ton electronic scale system, displayed on a 7-segment LED.

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Abstract: This topic focuses on designing a measurement circuit to improve the accuracy and performance of an electronic weighing system with a maximum load of 20 tons. Thereby, it addresses the issue of quality control in commercial activities. The research method includes both technical theory and experimentation, focusing on selecting and implementing circuit components suitable for modern technological requirements. The expected result is an electronic weighing system with high resolution, stability, and easy visual data reading on a 7-segment LED display, contributing to the practical application of weighing technology in manufacturing and commercial fields.

Keywords: Electronic weighing system, Measurement circuit, Reading indicator, LED technology