

Control and monitoring of ABB ACS 550 inverter using Modbus RTU method.

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Abstract: In today's context, optimizing electrical systems has become an urgent requirement to enhance performance and reliability. This topic focuses on researching how to control and monitor the ABB ACS 550 inverter via the Modbus RTU protocol. The goal is to build an effective automation solution, ensuring tight control and optimizing the energy usage of the electrical system. The research method combines theory with experimentation to provide recommendations for practical application deployment. The expected result is to offer a flexible and feasible solution for optimizing the operational performance of the inverter system.

Keywords: Automatic control, Modbus RTU, ABB ACS 550 inverter, Energy optimization, Electronic control