Abstract

Using of air conditioning equipment to cool the room, has become one of the needs especially in areas with hot climates. In operation, users do not know how much electricity consumption is consumed by air conditioning equipment, so that it can potentially cause electricity waste.

This research aims to make a system simulation through proteus simulation program, which can monitor electrical energy consumption from air conditioning equipment, through input data from the current sensor that is processed by the controller, then informed through the LCD display as information on the amount of electrical energy consumption from air conditioning equipment.

From the test results, it was found that, systems that are made can monitor the amount of electrical energy consumption from air conditioning equipment, where the monitoring results are displayed through the LCD display. The information displayed is the amount of electricity consumption in watt hour (Wh) and the amount of the price paid in rupiah (Rp).
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Index Terms

Computer Science

Circuits and Systems

Keywords

Simulation, Proteus, Controller, Electrical Energy, Air Conditioning.