Design Build System Monitoring and Control System Security in Electricity and Equipment Through the House Using SMS with Microcontroller

Name of Student : Edrus Albar
NRP : 2206 030 073
Name of Student : Wahyendro Wicaksono
NRP : 2206 030 075
Advisor : Rachmad Setiawan, ST, MT

Abstract

Nowadays has been increasing human activities, sometimes we forget to close the door of the house, turn off lights or other home electronic equipment. Or is the house we go and we do not have people, we do not know whether the house is safe or has been entered by the person who is not known.

Objective of the final project tasks Handphone selected as the delivery of media messages. When a person opens the door of a house or fence, then ordered mikrokontroler to the Handphone server to send a message to the user a message Handphone "pintu open, pintu close or pagar open, pagar close" as well as equipment such as electric home lighting and fan. When a light switch or pressing fan switch, Handphone and a server will send the message be "lampu on or off the kipas on kipas off." Thus, we can condition monitoring equipment and a house anywhere, anytime. Besides monitoring the electrical and home, in the final task of this project, we also can control home electrical equipment, such as lights and fans at the same time know the status of open and close the door of the house fence, as well as status on the house lights off and the fan.

Results from this system is the failure of Percentage of SMS to the user's HP HP module for command "lampu on" = 0%, "lampu off" = 0%, "kipas on" = 0%, "kipas off" = 0% and "status" = 0%. With each record - the command is sent 10 times.

Keywords: Mikrokontroler AVR ATmega8535, SMS, Handphone
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