MONITORING AND CONTROL SYSTEM OF ELECTRICITY ENERGY IN THE OFFICE ROOM USING MICROCONTROLLER AND RADIO PHASE

ABSTRACT

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Nowadays, the most important problem in Indonesia is electrical energy crisis. That is caused by many element, among others are unbalance of society necessity. In using electrical energy, big consument have a vital influence. We are using office room in many company as the object of our final project because in this area often happen not efficient.

In this final project, we are make monitoring and control system of electricity energy in the office room using microcontroller and radio phase system. This system get controlling and monitoring about on or off electric in many buildings. This system is setting all of electric in what time it must on or off. Beside that, this system using alarm to give warning 15 minutes before the all electric must off. Usually many company is operated about 07.00 am until 05.00 pm. That is our reference to do this final project. We are also using ATmega16 microcontroller to support communication serial, ATmega8 microcontroller to support driver. While to support radio phase using RFM12 module.

This final project will controlling and monitoring about electric in a building using radio phase with the result is efficient.

Keywords: Electric, Microcontroller, Radio Phase