

ABSTRACT

AUTOMATIC LIGHT CONTROL ROOM SENSOR USING LIGHT AND MOTION SENSOR BASED MICROCONTROLLER ATMEGA8535

By

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In everyday human life is never free from electric lighting. To turn on and turn off electric lights are usually a human using the manual switch. To save electric power consumption is generally done by cutting the flow of electricity by using the switch Manua. Use of the manual switch is considered less effective because people often forget to mematikanya. The purpose of this research is to make a switch that can operate automatically to turn on and turn off the lights in the room without having to press the switch. This device consists of several circuit blocks, namely the light sensor using LDR (Light Dependent Resistor) sensor uses a motion sensor PIRmodule KC7783R, using ATmega8535 control, a switch by using the relay and lamp output using 220VAC.

Keywords: PIRmodule KC7783R, LDR, Microcontroller ATmega8535 and Relay.