

ABSTRACT

Security is one very important factor in human life, because of the presence of human security can perform her activities with ease and without worrying about the threat against him. Security is in need at any place and any time, whether in the home, in the workplace, as well as in a state of activity or berisitirahat. One of the places that need security is the home, where home is one place where the property, which usually comes from outside threats like thieves and fraudsters.

In the final project this time the author makes an instrument entitled "Application Microcontroller Based On A Home Security System With Integrated PIR Sensor and Alarm Modem" which serves to prevent the homes burgled while undergoing intensive daily routine and we are feeling a little more calm and ruamh not think too much about the state of the left for having a home security system that is anti-theft alarm ..

At the end of the project this time I used to own a PIR sensor range within 1-7 meters at an angle of 60 degrees in the active state, and when the sensor detecting but previously activated with a remote that has been detected in a 20meter distance from the position of the PIR sensor, wherein the block input has been going well. While the blog has detected an alarm output when the voltage of 12 VDC relay which is active when all input components work well and at the time worked with Central lock automatically and information about providing GSM modem kepada homeowners

Keywords: Microcontroller ATmega 8515, PIR sensor, GSM Modem, Central Lock