ABSTRACT

In general, system security safes still looks quite safe and security system is

simply to lock and unlock the door using a password safe. Sentry safes are located in

certa in indoor course in volves field workers. Safeguards need to be carried out mainly

at night to prevent loss of the contents of a safe deposit box. Since it is not efficient, it

requires a safe security system that can be controlled by their owners.

The final project will be made a safe security system microcontroller based with

sms and alarm facilities. Activation begins with the RFID system reads in RFID Card

Reader and then proceed with an emphasis pin code on the keypad. Combination lock

will open if the pin code is pressed correctly. The system is also equipped with a fault

detector that has been integrated on the ATmega328 microcontroller program that will

detect any rfid tag and pin inputting keypad. If an error occurs RFID tag detector and

inputting the keypad on the microcontroller will give as many as five (5) times the

chance. If on the occasion of the fifth (5) there are errors or inputting rfid tag keypad

pins on the microcontroller will immediately send an SMS to the owner's mobile phone

and activate the alarm.

In this final project has been realized safe microcontroller based security system

with sms and alarm facilities. system has been successfully activate the solenoid when

the RFID tag from the keypad and inputing from right, send sms and activate an alarm

in the event of an error of RFID tags and inputting the pin on the keypad.

Keywords: RFID, SMS, Alarm, Arduino Uno