ABSTRACK

A fairlyhighrate of crimeespeciallytheftencouragethemanufacture ofsafety devicethat is able toprovide securitystrongboxmore effective. This device consistsofseveralimportantpartsofthe circuitmicrocontrollerATmega16, Modules SimGSM-900 and themobile phoneas a mediumfortransmitting data.

This tool is designed as a security system which was applied to the strongbox key that works automatically. With a security system using microcontroller ATmaga16.as the central data processing of all existing systems. These systems utilize mobile media, which serves as a tool to send SMS containing the password to access the strongbox, then SMS will be received by the module Sim GSM-900 and processed by the microcontroller.

The workings of this security system is that if the password is sent true then the strongbox key will open automatically and there will be an sms reply + OPEN OK, and if the wrong password will be sent an sms reply + ERROR MSG. Meanwhile, a key moment in the strongbox will send the correct password and then there will be a reply sms LOCK + reply OK, if one then there will be ansms reply + ERROR MSG. Password used to open and lock strongbox use the same password. To maintain the confidentiality of the password can be changed at any time in accordance with the wishes of Admin (owner of the strongbox).

Key words: ATmega16, Modules SimGSM900, Handphone