ABSTRACT

In line with current technological developments, in particular the security of the abandoned residential home owner or empty fire hazard not only theft and other criminal acts, it is no surprise that humans are becoming increasingly want a more sophisticated security system and modern. As the known solutions that do so much. Still, many fires and fire hazards can not be prevented due, although safety with modern instruments. Usually the cause is due only to the security alarm and the fire extinguisher, it is not very effective because when the homeowner is not in place to prevent it can not be done.

In this final project will be made a fire detection system that uses the mobile phone as a device notification and mitigation. In principle, the technology used in the form of mobile devices as a link signal, then there is a microcontroller as processing input generated by the temperature sensors and smoke. For prevention systems between mobile phones and the water pump, using modem wavecom GSM as a channel.

The end result of this tool using mobile phones as a means of control of the fire protection system. Then connect to the microcontroller as a regulator of this system. This tool has the average - average delivery delay SMS notifications for 5.3 s, then activate SMS delivery delay of 5.9 s water pump. With security features such as SMS notifications and alarms, then the level of reliability of the tool by 80% according to the results of the test. The success rate of the system is the tool by 90% in accordance with the design and testing of the system.

Keywords: mobile phone, modemwavecom, user