ABSTRACT

Increased security at kost which are currently still prone to happening crimes and make harm to the occupants and owners of kost kost then needed security at the gates of kost to anticipate the occurrence of theft or crime, tools made is a security gateway appliance using the doorlock kost with SMS (Short Message Service) through mobile residents of kost and there will be a notice to owner kost that door is being accessed, to access the gate only number occupant phone kost. This tool uses technology GSM 800L doorlock module, and the Arduino Uno using the command SMS (Short Message Service), the resulting output is open and lock the door lock. The methods used in the manufacture of security gates kost is a method of experimentation with the design directly doing the design, both the design of the hardware or software design. Based on the results of testing the GSM module with the input voltage 800L Volt 4,24 derived with a series of DC-DC Converter output voltage of 5 Volt on-board arduino uno, solenoid doorlock work can open and close the lock solenoid, with voltage 8,02 Volt input can still keep opening and closing keys doorlock is theoretically 12 Volt voltage input.

Keywords: GSM 800 Module, Arduino Uno, DoorLock