

DESIGN AND IMPLEMENTATION WARNING ALARM KEY ON MOTORCYCLE BASED ON *SMS GATEWAY* USING MICROCONTROLLER ATMEGA8535

With the increasing production of motorcycles is increasing as well the motorcycle theft itself, one of the factors that lead to theft due to negligence and carelessness of motorcycle users themselves, in particular often forgetting repeat motorcycle key from the starter or the trunk lock. Therefore prevention and treatment needed to address the problem by creating a warning alarm motorcycle locks motorcycle is still lagging.

By Therefore, the authors make a key warning alarm system on a motorcycle with a goal reminiscent of motorcycle users in order not to leave the keys remain dependent on the ignition key and the motorcycle luggage.

This system will work when microcontroller gets input voltage of motorcycle batteries when the motor shaft key in the "off" condition or handlebar lock and trunk lock as connecting two wires so it can turn microcontroller on. After that, microcontroller giving it a delay of fifteen seconds to turn on the buzzer as the first warning and a GSM modem to send a short message to the user if the motorcycle buzzer does not heard.

Keywords: Microcontroller, Accu, GSM Module, Key Contacts & luggage locks