PARAMETER MEASUREMENT OF VEHICLE

ABSTRACT

The ‘PARAMETER MEASUREMENT OF VEHICLE’ is an idea to make our vehicle smarter. It can allow us to know the amount of fuel it has while filling fuel in it so that we can refrain ourselves from being fool at fuel stations. It is assembled with an ultrasonic sensor which measures the distance of an object in front or by the side of a moving vehicle. Thus alert us while travelling to avoid any accidents.

As the crime rate is going up, security system for vehicles is extremely essential. If someone tries to steal the car, the microcontroller gets an interrupt through a switch mechanism connected to the system and commands the GSM modem to send an SMS.

The owner receives the SMS that his car is stolen. He can then send back an SMS to the GSM modem to ‘stop the engine’. The GSM modem interfaced to the microcontroller, receives the message, the output of which activates a mechanism that disables the ignition of the vehicle resulting in stopping the vehicle. The project uses a lamp to indicate the engine ON/OFF condition.

Thus, owner of the vehicle from anywhere can switch off ignition of his car. This project can be further enhanced by integrating a GPS system, which will give exact position of the vehicle in terms of its latitude and longitude. Further this data can be sent to the owner via SMS who can enter this value on Google maps to get the exact location of the vehicle.

BLOCK DIAGRAM