ABSTRACT

Traffic accidents are unexpected events and unintentional roads involving vehicles which can be result in human casualties or property losses. Accidents can also be caused by the negligence of a driver who cannot check the condition of the engine resulting in a serious danger for driver and the surroundings.

On Board Diagnostic-II (OBD-II) can facilitate data transfer from the Engine Control Unit (ECU), it can reduce the level of traffic accidents. Sensor reviewed include Revolutions Per Minute (RPM), car temperature, load, speed, and throttle levels. The OBD-II transmission type used is ELM327.

The 5 parameter data recording process which done through a database and paramosa on city road and highway get a data record in both scenarios on a database is 54 data, 16 data on city road and 24 data on highway are recorded in paramosa. With synchronous recording data between the database and paramosa, a difference in average standard deviation of 0 (zero) can be produced. Which means it can be concluded that that all sets of values recorded by database and paramosa are the same.

Keywords: OBD-II, ECU, *cloud server*, *database*, paramosa.