

ABSTRACT

As time and increasing human need for a system that can work in real time to assist the work of humans, especially motor vehicle motorcycle much in demand by the public because it easier to travel far and near. In the motor vehicle is also equipped with a distance measuring device to determine how the vehicle mileage vehicle during the first motorcycle used until recently used, the distance calculation will always be ongoing every motor vehicle running. In one usually traveling motorists traveling frequently menghitung vehicle mileage from place to place by looking at the numbers listed on the speedometer with a given initial distance on a motorcycle before setting up the vehicle berhenti.oleh therefore to facilitate the measurement of the distance motor vehicle made a design detector distance measuring tool with the working principle of motor vehicles using a hall effect sensor that detects a magnetic work that is attached to the side of the wheel to make the mileage calculation. The design of this measuring tool uses the data processors with ATmega8 microcontroller, LED as an indicator that the sensor detects an object that crosses the sensor, as well as 2x16 LCD to display the results of vehicle mileage and can display the results of vehicle mileage on a PC that is connected via the serial port. working principle of the measuring instrument motor vehicle mileage is before we want to measure the vehicle's mileage first set the two buttons at the gauge mileage is on the settings button to set the day to be used and the clear button to reset the data or adjust the calculation of the distance from the initial condition or zero.

Key Word : Measurement Detector mileage motor vehicle. Microcontroller Atmega 8, Hall Effec Sensor, LCD 2x16, Laptop, Port Serial RS232