# Final Year Project Report

# Digital Speedo Meter


By


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# ABSTRACT

Purpose of this project is to develop a model for “Digital Speedometer”. Speedometer is an electronic device, which serve as a measuring equipment for speed limit of 999kmph. A microcontroller and a screen display will show measurement of speed. For this project, a microcontroller with specification of ATMEL AT mega 16 will be used. Speedometer is designed and programmed in such a way, that it diagnoses any interrupts immediately.

Digital speedometer is designed with the intention of using in automotive vehicle. In order to link it with conventional speedometer cable driver a transducer has been added in it. Speedometer has been designed in way that is more sophisticated, it has ability to respond whenever speedometer cable driver produces a motion. All this is done with the help of built-in Hall Effect sensor. Hall Effect sensor is placed on the moving parts of vehicles, usually the wheel and other rotating parts. In response to the pulse produced by rotational parts, microcontroller records speed and displays it on the display unit i.e. LCD.

In this project, we aim to replace existing displayed gauges. The newly installed gauge will be LCD. In case user of the vehicle tries to distract, the speedometer will respond accurately in any case because of features we added.