

ABSTRACT

Wiper is mechanic part who be standard of vechicle equipment, that is mean their would not be allowed a single car to sell either in road way if one of that standard not full filled. Controlling wiper these day had so much variant speed mode to produce work that is inefficient and can make the driver became confused. For that we need a system that can automatically execute the wiper accordance with the conditions of level rain.

By creating the automatic control system settings delay wiper acquired from changes in the value of the phototransistor due to rushing rains that drain the windshield, then change the value of which has been converted into a voltage values will be processed in the microcontroller using fuzzy logic to obtain the output of delay in units of time, so the wipers can work as rushing rain fell.

By using 8 pieces phototransistor as the feedback system with the value range from 0 to 5 volt, the value of sensor readings had of less than 10% deviation from the value of its terms. The biggest battery consumption occurs in manual experiments with high speed had value 0.24 volt.

Keywords : *fuzzy logic, rain, phototransistor, wiper, dc motor.*