VIOLATION DETECTOR PROTOTYPE MARKA ROAD WITH RFID

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ABSTRACT

In this final prototype tool designed for "Violation Detector Prototype Marka Road with RFID" with the goal to be a reference in the realization of a tool used for the lane violation detector that is a stop line markings. Expected to provide solutions to traffic order and also to support the implementation of Law No.22 yrs 2009 LAJ [1].

This means working system when there is a tag on the vehicle detected by the RFID stop line at red lights then the data will be entered into the database. Incoming data from RFID stop line initials are given as the distinguishing features of each type of violation. This means the system has two units with RFID include converter RS-485. The second system was placed in isolation and each is connected to a microcontroller unit through converter RS-485.

Tests carried out five times to produce a one-time error, the data does not appear in the data base at the stop line. The distance between the tag on the highway stop line as high as 6 cm, with the number of ID 8 characters and an initial 'H'. RS-485 capable of working at frequencies of 60Hz-2kHz Square wave form.

By adding RFID transmitters transmit power at UHF or microwave frequency can be applied as a means of detecting violations of the lane.

Key Word :RFID, Microcontroller, RS-485, Marka road