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Smart driving with automatic control mechanism

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ABSTRACT

Every vehicle has its own emission of gases, but the problem occurs when the emission is beyond the standardized values. The primary reason for this breach of emission level being the incomplete combustion of fuel supplied to the engine which is due to the improper maintenance of vehicles. This emission from vehicles cannot be completely avoided, but it definitely can be controlled. The aim of the project is to monitor and control the pollutants in the vehicle by using the pollution control circuit. Internal Co Emission Check and Control for Clean Environment. Vehicle can be controlled by government authority by Server. Automatic Speed Control based on vehicle distance measurement. Fuel Theft detection using ultrasonic sensor and sending SMS to owner using GSM technology Automatic Air conditioner Functioning based on High precision temperature measurement and control.

INTRODUCTION

The incomplete combustion in the engine of a vehicle leads to emission of different gases contributing to increase in the pollution and adversely affecting the environment. Detection and control of these gases is an important area of work. This emission from vehicles cannot be completely avoided but, it definitely can be controlled. Now a day's accidents are common reason for deaths. These are critical things to control so here we come up with a concept to reduce pollution and detect the location of accident using GPS. As a solution to the above problems we aim to build an automated control system for emission level control of vehicle and accident place detection. Smoke detector is used to detect the carbon percentage in the smoke released by the vehicle due to combustion of fuel in it. Smoke detector is fixed at the end of the exhaust of vehicle from where smoke is released into the environment.

Pre-defined values

POLLUTANT	PERMISSIBLE LIMIT
Nitrogen dioxide	60-80g/m3
Carbon monoxide	2-4mg/m3
Sulphur dioxide	60-80g/m3

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