**Vehicle Pollution Monitor**

*Abstract*

Pollution is a major problem that we are facing for a long time now. Increasing number of vehicles on the road adds to its severity. Many scientists have demonstrated that vehicle emissions are the major contributor to air pollution. And due to the increased demand for transportation, contamination is also increasing. The people and the government have identified air pollution as an immediate concern. Protocol, standards, and preventive measures are defined steps for monitoring air. The Motor Vehicle department has given a limit of pollution caused by vehicles and owners have to check the pollution amount on constant intervals going to pollution checking centers.

This project aims to propose a system to monitor emission levels of individual vehicles. An IoT kit is prepared using gas sensors, Arduino integrated development environment (IDE), and a Wi-Fi module. This kit can be physically placed in the exhaust system of every vehicle. The gas sensors gather data from the exhaust of the vehicle and forward the data to the Arduino IDE. The Arduino IDE transmits the data to the cloud via the Wi-Fi module. Then the pollution information and emission of the vehicle can be monitored using a mobile application remotely, which makes the system more easy.

Reference : S. Chaudhary and K. Sahroha, "Vehicular Pollution Monitoring System using IoT: A Review," 2021 3rd International Conference on Advances in Computing, Communication Control and Networking (ICAC3N), 2021, pp. 686-690, doi: 10.1109/ICAC3N53548.2021.9725694.

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