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Patent Search

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Abstract:

The invention is related to Internet of Things based device that monitors the gases coming out from the exhaust pipe and analyzes the real-time value of gases as per BS6. After analysis, it can generate an alert for the vehicle owner about the health of his car and provides the possible reason and a plan of action to control the pollution level, is an IoT based device that collects the value of different gases emitted from the exhaust pipe and analyzes it. If the level of any gas crosses the threshold level, it notifies the owner about the health of his car. The invention is built using several components such as MQ-gas sensors, GSM module, Wi-Fi module, Arduino UNO, Thingspeak cloud. The product can be fitted at the end of an exhaust pipe of a vehicle. When gas is emitted from the pipe, the sensors sense the exact emission values of different gases and compare with the threshold value as per the norms set by the government. For the analytics purpose, it contains some cloud subscription that contains the data sent by the sensor through Wi-Fi. The data is collected in the cloud which can be used for further analytics. If the owner of the vehicle does not take any action for the pollution control of the then the information will be shared to the local RTO office for corrective measures.

Complete Specification

The invention is related to Internet of Things based device that monitors the gases coming out from the exhaust pipe and analyzes the real-time value of gases as per BS6 norms. After analysis, it can generate an alert for the vehicle owner about the health of his car and provides the possible reason and a plan of action to control the pollution level, if any.

Description of the Invention It is an IoT based device that collects the value of different gases emitted from the exhaust pipe and analyzes it. If the level of any gas crosses the threshold level, it notifies the owner about the health of his car. The invention is built using several components such as MQ-gas sensors, GSM module, Wi-Fi module, Arduino UNO, Thingspeak cloud. The product can be fitted at the end of an exhaust pipe of a vehicle. When gas is emitted from the pipe, the sensors sense the exact emission values of different gases and compare it with the threshold value as per the norms set by the government. (For the analytics purpose, it contains some cloud subscription that contains the data sent by the sensors through Wi-Fi. The data is collected in the cloud which can be used for further analytics

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