ABSTRACT

The increasing number of motor vehicles has led to a rise in vehicle exhaust emissions, which can have adverse effects on the environment and human health. Therefore, a device capable of monitoring and measuring vehicle exhaust gases in real-time has become crucial. In this research, we design and develop an Internet of Things (IoT) based motor vehicle exhaust gas measurement device. This gas measurement device is equipped with gas sensors to detect specific types and concentrations of gases emitted from vehicle exhausts. The data collected by the sensors are transmitted through the IoT network to a monitoring platform accessible via mobile applications or computers. Users can monitor the quality of vehicle exhaust gases in real-time and receive alerts if the gas levels exceed predefined thresholds. With the implementation of this device, it is expected that motor vehicle drivers will become more aware of the environmental impacts of their vehicle emissions, and preventive actions can be taken in a more timely manner.

Keywords: *Internet of Things, Pollution, Exit Gas.*