

# Air Quality Monitoring and Controlling Using IOT

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**Abstract:** Smart cities are growing as a crucial area of research on an international level; they improve infrastructure to address issues brought on by the high rate of development. With Arduino's assistance, this system is cheap and simple to construct, and it operates relatively efficiently in locations with medium traffic. The public plays a significant role in deciding on policies to fight air pollution. To encourage public recognition of the duty and some form of action is a crucial role in any society. The studies determined the pollution level; if the level exceeds the permissible level, a decision is made to notify the authorities, who can use this information to plan preventive actions and take steps to halt the ongoing negative effects of air pollution and prevent the evolution of developments in technology are beneficial to us; in our current surroundings, air pollution monitoring systems play an important role since they directly affect our daily lives. The government determines the acceptable emission limits in accordance with Bharat Stage standards. The level of a vehicle's emissions rises as a result of incorrect maintenance. The owner of the car will be warned of the dangerous levels of pollution when the emission levels of the vehicle grow. There will be emissions from every car. Emissions cannot be totally avoided, but they may be tracked and managed with the use of an embedded pollution detection system. In order to provide some insightful ideas for the sustainable growth of urban traffic, it focuses on learning some achievable strategies for managing and effectively reducing urban traffic pollution.

**Keywords:** Air Quality

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