

IOT Based Handheld Device for Air Quality Monitoring

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Abstract: *The IoT (Internet of Things) based handheld device for air quality monitoring is a portable device designed to monitor the air quality of indoor and outdoor environments. The device utilizes a combination of sensors, wireless communication, and cloud computing to provide real-time air quality data to the user. The sensors measure various air quality parameters such as temperature, humidity, particulate matter, and gaseous pollutants. The data collected by the sensors is transmitted wirelessly to the cloud, where it is processed and analyzed. The device also provides a user-friendly interface that allows the user to monitor and analyze the air quality data in real-time. This device can be used by individuals, organizations, and government agencies to monitor air quality and take appropriate measures to improve it. The parameters that are affecting the quality of air volume of CO, volume of CO₂, detection of leakage of any gas - smoke, alcohol, LPG. as these parameters hold importance to everyone. This devices helps to monitor all these paramereers with the help of a standard MQ-135 Sensor along with an Alert buzzer activates whenever its volume exceeds a particular safe limit intended for a particular application.*

Keywords: Handheld Device

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