IMPLEMENTASI PREDIKSI KUALITAS UDARA MENGGUNAKAN SENSOR GAS MQ DAN SENSOR DEBU DENGAN THINGER.IO

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ABSTRAK

Yogyakarta is one of the crowded cities in Indonesia with motor vehicles. The many people use motor vehicles; from students, employees, to tourists who come, causing increased air pollution in the city of Yogyakarta. The smoke from these motor vehicles contains harmful gases such as CO (Carbon Monoxide), CO2 (Carbon Dioxide), dust and other harmful gases, thereby causing air pollution that pollutes Yogyakarta city and has an impact on public health. In finding the level of air quality, a tool is needed to detect these harmful gases. This research aims to create an air quality monitoring system that aims to provide information about air quality at certain spots. This air quality detection tool consists of several sensors with their respective functions. They are: MQ-7 sensor to detect Carbon monoxide gas, MQ-135 sensor to detect Carbon dioxide gas, GP2Y1010AU0F sensor to detect dust, and Arduino Nano used as microcontroller serves to control those sensors. This air quality monitoring system can be accessed anytime and anywhere online through the website.

Keywords: *Air Quality Monitoring System*, *microcontroller*, sensor, *website*