

ABSTRACT

Air pollution is the condition in which the air is degraded and polluted by substances that are harmless or harmful to human health. Air pollution usually occurs in large cities and densely populated industrial areas, producing gases containing substances that exceed normal exposure limits. The main air polluting gases are carbon dioxide (CO₂), carbon monoxide (CO) and sulfur dioxide (SO₂).

Development of sensor technology for gas detection, which is currently one the rise rapidly provides a solution to overcome the above problems. In this study, tools for recognizing carbon dioxide (CO₂) gas As air pollution information will be made, and a dfrobot sensor to monitor oxygen conditions in an area. This tool can detect the presence of gas in the air every second. For sensor testing, the sensor is brought closer to the motorcycle exhaust, and the gas lighter.

It is hoped that in the future this tool can be used for institutions that research about air pollution, of course with the development of technology and better performance using a microcontroller that has been developed at this time.

Keywords: Arduino Uno, Microcontroller, Air Pollution, Dfrobot Sensor, MQ-135 Sensor.