THE DESIGN OF THE MEASURING INSTRUMENT THE LEVEL OF CARBON MONOXIDE ON DIMENSIONAL ROOM 2m X 1m X 2m USING ARDUINO MEGA ADK BASED SENSOR TGS 2600

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Abstract
Carbon monoxide (CO) is a gas that is not coloured and smell, the results of the burning that was imperfect from material carbon. Carbon monoxide very dangerous for the human body especially to the area with the very high air level of pollution.

In this thesis was made a system that could detect the existence of gas CO, stated the size of the level of gas, and as the controller of the level of gas CO. It uses sensor TGS 2600 that had a function of detecting the level of carbon monoxide in the air. TGS 2600 were main transducer that was used in this series, that was a chemical censor or the censor's gas. In implement planning measured carbon monoxide to the dimensional room 2m x 1m x 2m was used microcontroller arduino mega ADK as controller and for the screen display was used by LCD 2x16. The results of the test, could be it was good because of being obtained in general the percentage error of 3%, precision of 95% with the level of CO that was measured of 0 to 0.110 and had the tolerance limit 0.05.

Keywords: The measurement of the carbon monoxide Sensor TGS, 2600, Arduino Mega ADK, LCD 2 X 16