

ABSTRACT

Cars are one of the means of transport is needed in this modern era. Most of the residents Indonesia already has a four-wheeled vehicle. at this point the car is equipped with a cooling device that is used for the cooling air for the passengers to feel cool and comfortable. However, the AC in the car would leak resulting in the overflow of carbon monoxide gas in the air that will cause damage to the nerves of the brain and blood. Therefore, a tool designed air monitoring system in a car-based microcontroller.

The tool is designed with the help of microcontroller as controller unit. This tool will detect existing air in the car when the air conditioner was leaking carbon monoxide gas will be issued so that the device will know that the air inside the car is not healthy, the device will use sensors to detect the MQ 7 (carbon monoxide sensors) that can detect carbon monoxide, Current detected carbon monoxide gas exceeds 100 ppm, the microcontroller will control relays which will shut down the system ON / OFF AC car. microcontroller also controls the alarm and LCD.

With the tools and the monitoring system will create an early detection tool for tackling gas Carbon Monoxide (CO) in the car caused by air leakage and can be used as a useful tool for a four-wheeled vehicle user.

Keywords : Carbon monoxide (CO), MQ 7, microcontroller, Relay, LCD, Alarm