SMOKE CONTROL SYSTEM MULTICHANNEL PWM USING MICROCONTROLLER ATMEGA 8

ABSTRACT

Has been designed and realized a series of control and smoke detector in the room Smoke Control Systems Using Multi-Channel PWM-Based Microcontroller Atmega 8. Skema is designed based on microcontroller Atmega 8 and using MQ 2 sensor as an input to detect smoke in the room. Sensor is have a high level of sensitivity to the two gases are Hydrogen and Ethanol is considered to represent the gases contained in smoke. When smoke is detected the sensor resistance will decline, and rise again if smoke is detected density decreases. Once smoke is detected smoke concentrations measured values are displayed on the LCD and will drop proportional to the decline in cigarette smoke also detected. Fan speed will be proportional to the pulse width high is already in the program in accordance with microcontroller smoke levels were detected in room. This system has been tested and construction tool is only in the form of simulation.

Keywords: Cigarette Smoke, MQ2 sensor, microcontroller, LCD, PWM