

Fire Alarm

This paper describes the design of a home fire alarm with Arduino-based system by means of GSM Module. The project purposely is for house safety where the main point is to avoid the fire accidents occurred to the residents and the properties inside the house as well. It utilizes Arduino Uno board in conjunction with ATmega328 chip. The main controller used is certainly the ATmega328 which controls the home fire alert subjected to the temperature sensor. An LM35 temperature sensor is used to detect the heat from the fire. Smoke sensor will detect the smoke in the house. An alert message will be sent to the user via short message service (SMS) via GSM module. When the system detects the temperature of 40 C or more or any smoke , it will immediately display an alert notification on LCD display and simultaneously sending an SMS alert to the users upon the high raise temperature and smoke in the house. Results from the test are documented and discussed. Through this system, it can help users to improve their safety standards by having immediate response in preventing accidents. This will eventually allow the users to protect their lives and the properties as well from the disaster.

