ABSTRACT

The fire detection system aims to monitor for the presence of fire to alert and allow control action. Recent days, fire incidents are commonly reported. This might be due to the negligence of people in many cases. The main components of the project are Flame sensor and Arduino uno. A flame sensor is a kind of detector which is mainly designed for detecting as well as responding to the occurrence of a fire or flame. The flame detection can be done from a 100cm distance.

A fire alarm system has a number of devices working together to detect and warn people through visual and audio appliances when smoke, fire, carbon monoxide or other emergencies are present. These alarms may be activated automatically from smoke detectors, and heat detectors or may also be activated via manual fire alarm activation devices such as manual call points or pull stations. Alarms can be either motorized bells or wall mountable sounders or horns. The primary thought in the present field advances are computerizations, power utilization, and expense adequacy. Automation is implied for the decrease risk of human neglection. Two sensors viz. The Temperature sensor and Air quality sensor which are utilized as a part of the Fire Detection System to recognize a fire. The temperature sensor records the temperature of the room. The Air quality sensor detects if there is any gas present in the room. Here we have utilized an Arduino Uno to control all the command from both the sensors and execute them legitimately. Fundamentally it acts as the mind of the entire framework.