

ABSTRACT

Fire Detectors play a very important role in Industries, Shops, Malls, Residential complexes, and parking areas. They help in detecting fire or smoke at an early stage and can help in saving lives. Commercial Fire detecting systems usually have an alarm signaling, with the help of a buzzer or Siren. We have designed an IOT based Fire Alerting System using Temperature, smoke and fire sensor. This project would not only signal the presence of fire in a particular premise but will also send related information through IOT.

The Internet of Things (IoT) is basically the network of ‘things’ by which physical things can exchange data with the help of sensors, electronics, software, and connectivity. These systems do not require any human interaction. In this Arduino fire alarm system using temperature and smoke sensors using the IOT project, we can send LIVE information like Temperature, Smoke, fire Value detected by a particular device to the Fire Department.

Fire prevention and protection in industrial plant basically include procedures for preventing, detecting and extinguishing fires. There is much to be done to promote safe systems for fire prevention. The systems should be designed to protect the employees and property and to ensure safe working systems. Fire prevention and protection in any industrial plant include fire detection system, fire alarm system, fire prevention plan and employing legal requirements relevant to fire and safety management.