

Video-02

Fire Alarm System Project by Interfacing Arduino UNO with Temperature & Gas Sensor

This project is a basic safety monitoring system that uses an Arduino Uno to detect high temperature and the presence of gas. A temperature sensor (**connected to A0**) reads analog values, converts them into Celsius, and triggers an **LED** if the temperature exceeds 80°C. A **gas sensor (connected to A1)** detects gas concentration levels, and if a threshold value is crossed (≥ 100), it activates a **buzzer (piezo connected to pin 6)** as an alert. The system continuously displays temperature and gas readings on the **serial** monitor, making it suitable for basic fire or gas leak detection applications.