

Gas Leakage Detector Using Arduino Nano

Arya Tambve, Shravani Salunkhe, Arya Ahire, Savitha Bajal

Department of Electronics and Telecommunication Engineering.

JSPM's RSCOE Polytechnic, Tathawade, Pune.

Abstract: *Gas leakage is one of the major causes of fire accidents in homes, industries and laboratories, Liquefied Petroleum Gas (LPG) is widely used for cooking and industrial purposes, but leakage can lead to serious harmful such as fire, explosion, and health problem. This paper presents a low cost and efficient gas leakage detection system using Arduino nano and MQ gas sensor. The system continuously monitors gas level in the surrounding environment and provides immediate alert through a buzzer and LEDs when gas level increases a safety limits. The proposed system is compact, affordable, and suitable for domestic as well as small-scale industrial use.*

Keywords: Gas leakage detection, Arduino nano, MQ sensor, LPG monitoring, safety system

