

GSM BASED GAS LEAKAGE DETECTION SYSTEM

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Abstract— Gas leakage is a major problem with industrial sector, residential premises and gas powered vehicles like CNG (compressed natural gas) buses, cars. One of the preventive methods to stop accident associated with the gas leakage is to install gas leakage detection kit at vulnerable places. The aim of this paper is to present such a design that can automatically detect and stop gas leakage in vulnerable premises. In particular gas sensor has been used which has high sensitivity for propane (C_3H_8) and butane (C_4H_{10}). Gas leakage system consists of GSM (Global System for mobile communications) module, which warns by sending SMS. However, the former gas leakage system cannot react in time. This paper provides the design approach on both software and hardware.

Keywords: GSM (Global System for mobile communications), CNG (compressed natural gas), LPG (Liquefied petroleum gas), Gas sensor MQ-6, stepper motor Driver IC (ULN2003A), Microcontroller (AT89C51), LCD (Liquid crystal display), RF (Radio Frequency) link, Decoder HT12D, Encoder HT12E.

I. INTRODUCTION

LPG consists of mixture of propane and butane which is highly flammable chemical. It is odorless gas due to which Ethanol is added as powerful odorant, so that leakage can be easily detected. There are other international standards like EN589, amyl mercaptane and tetrahydrothiophene which are most commonly used as odorants. LPG is one of the alternate fuels used now days. Sometimes liquefied petroleum gas is also known as LPG, LP gas, Auto gas etc. This gas is commonly used for heating appliances, hot water, cooking, and various other purposes also. LPG is also used as an alternate fuel in vehicles due to soaring in the prices of petrol and diesel.

Some people have low sense of smell, may or may not respond on low concentration of gas leakage. In such a case, gas leakage security systems become an essential and help to protect from gas leakage accidents. A number of research papers have been published on gas leakage security system [1-13]. Embedded system for Hazardous gas detection and Alerting has been proposed in literature [7]. Where the alarm is activate immediately, if the gas concentration exceeds normal level.

Bhopal gas tragedy was an example of gas leakage accident in India. This was world's worst gas leakage industrial accident.

Gas leakage detection is not only important but stopping leakage is equally essential. This paper provides a cost effective and highly accurate system, which not only detect gas leakage but also alert (Beep) and turn off main power and gas supplies, and send an SMS. GSM module is used which alert the user by sending an SMS [2]. In order to provide high accuracy gas sensor MQ-6 has been used.

II. METHODOLOGY USED

The functionality of system is divided into three main steps. The fig. 1 shows the block diagram of gas leakage security system.

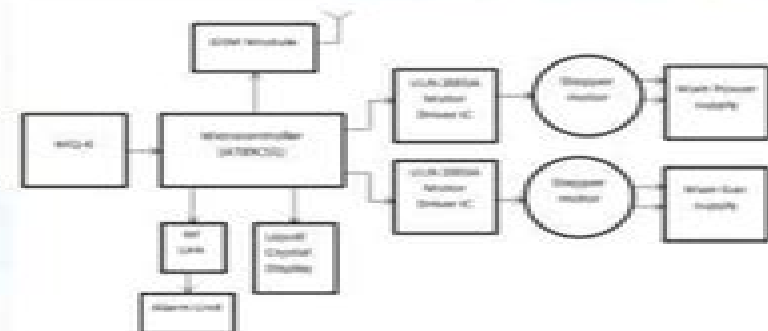


Fig. 1 Block diagram of gas leakage security system.

In the initial step, the gas leakage is detected by the gas sensor MQ-6. This detects the gas leakage and gives the signal to the microcontroller with the help of ADC. After that in second step the microcontroller receive the signal, send by gas sensor. It sends activation signal to other external devices attached with it. Such as two stepper motor IC (ULN 2003A), buzzer, LCD (Liquid crystal display), GSM module [10] and RF link. In the last step, many tasks have been performed such as buzzer activates simultaneously message display on liquid crystal display screen, GSM module activated, which send warning SMS to the user. Stepper motor IC (ULN 2003A) to drives the stepper motor attached it, as a result main power and

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