**MICROCONTROLLER BASED LOW COST GAS LEAKAGE DETECTOR WITH SMS ALERT**

## SYNOPSIS

The plan will encourage thorough implementation of strategies based on the “Guidelines on Safety Assessments for Chemical Plants” for factories that handle chemical substances and gas with a high risk of explosion or fire. From the perspective of preventing explosion and fire accidents, the plan will seek the active utilization of information concerning hazards recorded on Material Safety Data Sheets (MSDS).

Furthermore, the plan will urge the implementation of safety and health education by employers with regard to fire safety in multiple-tenant buildings with small businesses. At the same time, it will seek all-embracing strategies to prevent explosion and fire accidents, including measures to prevent dust explosions caused by magnesium alloys. In our project is **“AUTOMATIC GAS LEAKAGE DETECTOR WITH AUTO SMS”** used to senses the gas leakage and automatically informs to the fire service and our mobiles.

**INTRODUCTION**

A lighted cigarette, a burning splinter, an overheated electrical appliance or just about any of these can trigger a fire; and add to this the presence of foam sofa sets and nylon settings and the poisonous gases that their burning emanates-it hardly needs a few minutes to render persons helpless, even before they realise what’s happening. The automatic gas leakage detector described here could be the best thing to bet your safety on!

**BLOCK DIAGRAM**

**POWER SUPPLY**

**SENSOR**

**MICROCONTROLLER UNIT**

**MAX 232**

**GSM MODULE (OR) CELL PHONE**

**APPLICATIONS**

* + factories,
  + offices,
  + Homes,
  + banks,
  + schools,
  + And other commercial establishments.

**ADVANTAGES**

* This circuit detects the GAS directly
* Auto sms is inbuilt in our circuit
* Readily available ICs are used.
* Responsibility of the fire alarm unit is high.
* High Accuracy.