### INDUSTRIAL PARAMETER MONITORING SYSTEM WITH VOICE ANNOUNCEMENT

### AIM:

The aim of this project is to implement a security system to provide security for home/office.

**PURPOSE:**

### The purpose of this project is to provide security for home/offices with prior intimation of disaster.

**Block Diagram:**

**MICRO CONTROLLER**

**AT89S52**

**GAS SENSOR**

**SENSOR**

**POWER SUPPLY**

**Speaker**

**VOICE IC APR9600**

**LCD DISPLAY**

**TEMPERATURE**

**SENSOR**

**A**

**D**

**C**

**DESCRIPTION:**

In this we use sensors, which collect the data at predefined time intervals from different sensors for different physical parameters like fire gas, intruder and water level and sends this data to the controller. The AT89S52, an 8-bit micro controller collects the data from the different sensors. If any sensed parameter is out of pre-defined threshold value then it is indicating by glowing a particular LED and then announces that particular message (like gas detected) from voice IC through the speaker attached to it.

**SOFTWARE USED:**

1. Keil IDE
2. ISP
3. Embedded C

**HARDWERE USED:**

* Micro controller (AT89S52)
* Gas sensor
* Temperature sensor
* Voice IC APR9600
* speaker
* POWER SUPPLY
* ADC 0808

**RESULT:**

Hence by this project home/office safety is maintained by providing a system with well-equipped sensors.