Air Quality Monitoring System

INTRODUCTION

- *Pollution
- * Traffic
- Industries
- Increase in vehicles
- Lack of Data
- Health Problems







LITERATURE SURVEY



Air Quality Monitoring system at National Lab









Indoor air quality checking devices in US

Aim and Objectives

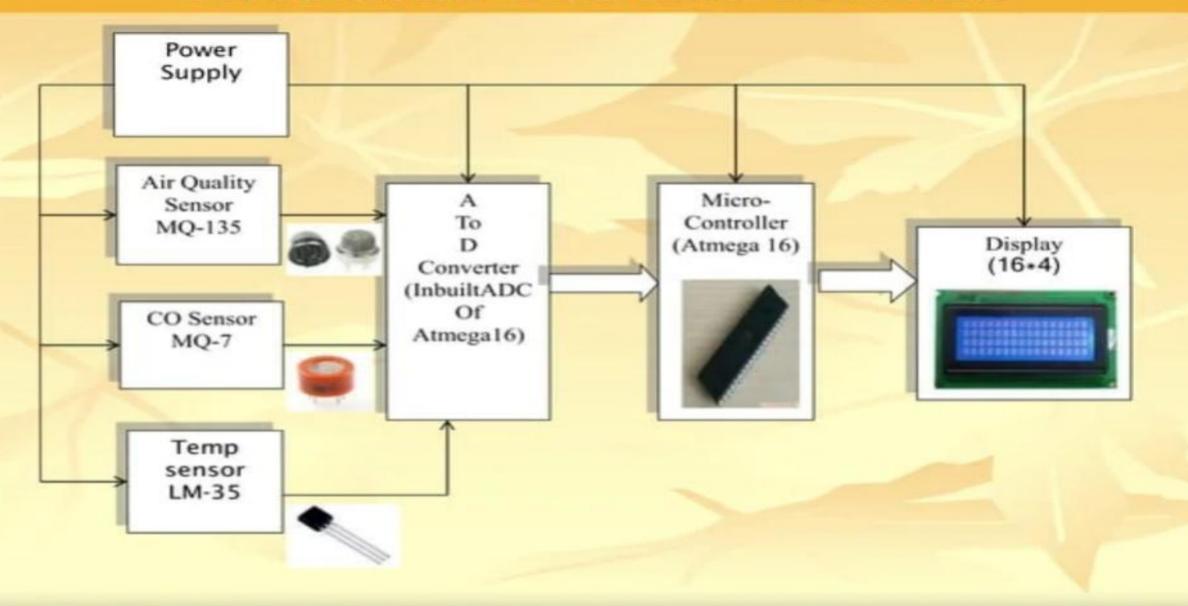
- To create a tool which will monitor the quality of air of our environment.
- Content of different gases present in air or area around us.
- Display the data on LCD.

PROBLEM STATEMENT

Design a tool which will-

- 1)Sense quality of air and display it in the form of percentage.
- 2)Sense how much Carbon Mono-oxide(CO) is present in air and display in the form of percentage.
- 3)Sense the temperature and display it in degree celcius

PROPOSED BLOCK DIAGRAM

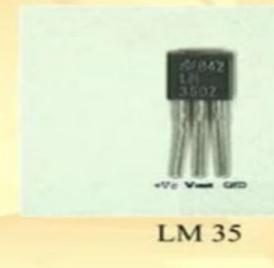


PRINCIPLE OF WORKING

- Project's basic principle of working is the sensing of data from the sensor.
- Convert the analog (voltage) data into digital form.
- Process the digital data and display it on LCD.







ADVANTAGES

- Sensors are easily available.
- Detecting a wide range of gases, including NH3, NOx, alcohol, benzene, smoke and CO2,Co etc
- Simple, compact & Easy to handle.
- Sensors have long life time & less cost.
- Simple Drive circuit.
- System is Real time.
- ❖ Operating voltage: 5 volt,-20°C to +50°C
- Quality of air can be checked indoor as well as outdoor.
- Visual output.
- Continous update of change in percentage of quality.

APPLICATIONS

- *Roadside pollution Monitoring.
- Industrial Perimeter Monitoring.
- Site selection for reference monitoring stations.
- Indoor Air Quality Monitoring.
- To make this data available to the common man.









Thank You