Gas Leakage Monitoring and Alerting System

Problem Statement

Gas leakage leads to various accidents resulting into both financial loss as well as human injuries. In human's daily life, environment gives the most significant impact to their health issues.

Nowadays, the usage of the gas brings great problems in the domestic as well as working places. The inflammable gases, which are excessively used in the house and at work places can be harmful to the people and the surroundings. The leakage of the gas causes destructible impact to the people.

So, by keeping it in mind, we have determined to develop an examining system which find the leak of gas and protects the work places by taking correct precautions at correct time.

The gas leakage monitoring and alerting system is proposed mainly to meet the safety standards. It is used to avoid accidents because of gas leakage. An embedded system for hazardous gas detection has been implemented to detect the gas spillage. The gas sensors will detect hazardous gases in domestic areas such as educational institutions, residential and industrial areas which avoids endangering of human lives.

To prevent ourselves from this type of accidents and to safeguard us before the accidents occur, our project be a better solution. This system helps us to detect the presence of amount of gas in the surroundings and if it exceeds, it alerts the people with the sound.

It also identifies the presence of humans in that area and turns off the valve automatically if no human is present in that place. This can be achieved with the help of sensors. Here we use the Arduino board and sensors to achieve this which would be great solution for the problem,